SERVICE MANUAL
PARTS LIST

PRIDE IN QUALITY

AKAI CARTRIDGE TAPE RECORDER

MODEL **GXR-82**

ALSO APPLICABLE TO MODEL GXR-82D

PHONE
1 2 3 4
PROGRAM SELECTOR
PAUSE
REC PLAY FFWD
STOP
AUTO STOP
CONT'S PLAY
POWER
GLASS & SINGLE XTAL HEAD
LEFT
RIGHT
REC
AKAI GXR-82
8-TRACK STEREO
TONE
MIC

CARTRIDGE TAPE RECORDER

MODEL GXR-82

ALSO APPLICABLE TO MODEL GXR-82D
CARTRIDGE TAPE DECK

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SECTION 1

SERVICE MANUAL

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I. SPECIFICATIONS

An asterisk next to a figure indicaties the minimum guranteed performance.

RECORDING SYSTEM		In-line 8-track stereo recording system	
PLAYBACK SYSTEM		In-line 8-track stereo playback system	
TAPE SPEED	Playback	3-3/4 ips±1.5% (*±2%)	
	F.FWD	15 ips±10%	
WOW AND FLUTTER		Less than 0.25% (*0.35%)	
FREQUENCY RESPONSE		50 to 16,000 Hz±3 dB	
SIGNAL TO NOISE RATIO		Better than 47 dB (*43 dB)	
DISTORTION FACTOR		Less than 3%	
CROSS-TALK		Less than 40 dB	
ERASE RATIO		Less than 65 dB (*60 dB)	
OUTPUTS	Line output	1.228V ("0" VU)±1.5 dB, using 500 Hz "0" VU recorded tape	
	Din output	0.4V (*Program ①, ④ $^{+2\text{ dB}}_{-4\text{ dB}}$)	
	Power output	More than 5W (Distortionless 8Ω)	
INPUTS	Line input	50 mV Impedance 500 kΩ	
	Din input	5 mV (*10 mV)	
	Mic input	0.5 mV Impedance 5 kΩ	
	Phono input	3.5 mV	
RECORDING/PLAYBACK HEAD		In-line 8-track stereo	
	Gap	1.5/1000 mm	
	Impedance	600Ω±15% at 1 kHz	
ERASE HEAD		In-line 8-track stereo	
	Gap	0.1 mm	
	Impedance	210Ω±10% at 90 kHz	
OSCILLATION FREQUENCY		67 kHz±5 kHz	
TRANSISTORS		2SC458LG(C) (D) . . . 2	2SC1312 (G) . . . 4
		2SC711 (F) (G) . . . 8	2SC711 (E) (F) (G) . . . 3
		2SC1211 (D) (E) . . . 2	2SC945 (P) (Q) (R) . . . 2
		2SD360 (D) (E) . . . 1	2SC360 (D) (F) . . . 1
IC		STK-011A . . . 2 (GXR-82)	
DIODES		WG-599 . . . 15	10D05 . . . 5 (82D: 6)
		10D4 . . . 4	WG-210 . . . 1
		1N34A . . . 4	
MOTOR		Condenser starting induction two-speed (2-8 pole) motor	
		Condenser Capacity	4 μF (50 Hz), 2.5 μF (60 Hz)
		Revolutions	2900 to 725 rpm (50 Hz) 3480 to 870 rpm (60 Hz)
INSULATION RESISTANCE		More than 50 MΩ	
INSULATION DURABILITY		1,000V AC for more than one minute duration	
POWER REQUIREMENTS		100 to 240V AC, 50/60 Hz	
POWER CONSUMPTION		60W	
DIMENSIONS		346(W) x 135 (H) x 266 (D) mm (13.6" x 5.3" x 10.5")	
WEIGHT	GXR-82	8.4 kg(18.5 lbs.)	
	GXR-82D	8.2 kg(18.0 lbs.)	

NOTE: Specifications subject to change wighout noitice.

II. MEASURING METHOD

1. TAPE SPEED DEVIATION

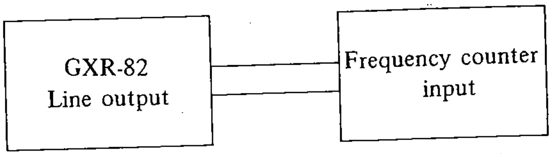

GXR-82
Line output
Frequency counter
input

Fig. 1

As shown in Fig. 1, connect a Frequency Counter to the Line Output. Playback a 1,000 Hz pre-recorded test tape. Take a frequency counter reading at the beginning, middle, and end of tape winding during playback. The maximum value of these respective readings will represent tape speed deviation.

2. WOW AND FLUTTER

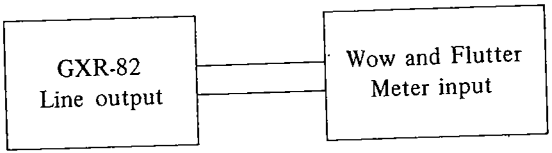

GXR-82
Line output
Wow and Flutter
Meter input

Fig. 2

Method A
As shown in Fig. 2, connect the Line Output of Model GXR-82 to the Input of a Wow and Flutter Meter. Use a 3,000 Hz pre-recorded test tape and take a wow and flutter meter reading. The maximum value of this reading will represent the wow and flutter.

Method B
Supply a 3,000 Hz sine wave signal from an Audio Frequency Oscillator and make a recording on a blank tape and then play the tape. Measure wow and flutter with a Wow and Flutter Meter. (The wow and flutter value of Method B will be close to twice that of Method A.)

3. FREQUENCY RESPONSE

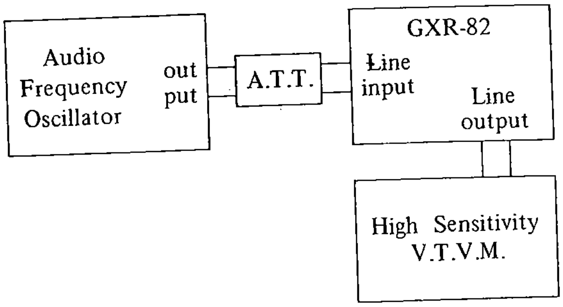

Audio
Frequency
Oscillator
out
put
A.T.T.
GXR-82
Line
input
Line
output
High Sensitivity
V.T.V.M.

Fig. 3

For measuring frequency response, connect instruments as shown in Fig. 3 and proceed as follows.

1) Supply a 1,000 Hz sine wave to the Line Input of Model GXR-82 from an Audio Frequency Oscillator through an Attenuator. Set recorder to recording mode and turn recording level volume control to maximum. Adjust attenuator to obtain a +4 dB V.T.V.M. reading.
2) Under conditions described in 1) above, re-adjust attenuator so that the Line Output is -20 dB. Record 50 to 16,000 Hz spot frequencies, and playback from the beginning. Take V.T.V.M. spot frequency readings and plot values on a graph.

NOTE: When measuring frequency response, new tape should be used.

4. SIGNAL TO NOISE RATIO

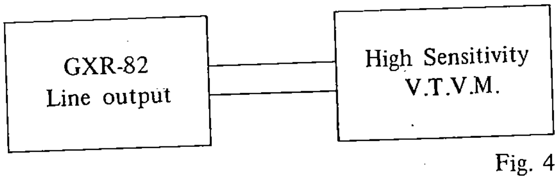

GXR-82
Line output
High Sensitivity
V.T.V.M.

Fig. 4

As shown in Fig. 4, connect a high sensitivity V.T.V.M. to the Line output of Model GXR-82. Playback a 500 Hz "0" VU pre-recorded test tape and measure the output. Then remove the tape and measure the noise level under the same condition. Convert each of the measured values into decibels.

5. TOTAL HARMONIC DISTORTION FACTOR

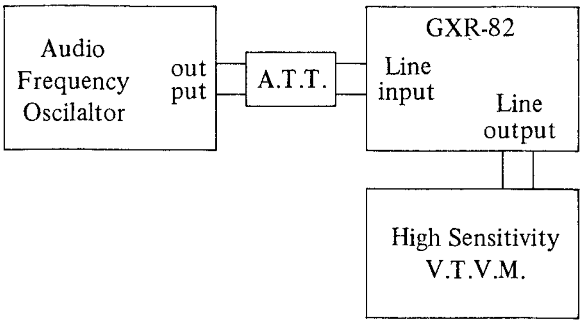


Fig. 5

Connect the measuring instruments as shown in Fig. 5 and record a 1,000 Hz sine wave signal at "0" VU. Playback the resultant signal and measure the overall distortion factor.

Measure the noise level of the tape recorder without the tape. Connect the audio frequency oscillator directly to the distortion meter for measurement of the distortion factor of the oscillator. The required distortion factor can be obtained from the results of the above measurement by the following formula:

$$d_0 = d - d_1 - d_2$$

where, d_0 = Required distortion factor
d = Overall distortion factor
d_1 = Noise level
d_2 = Distortion factor of the oscillator

NOTE: When measuring the distortion factor, new tape should be used.

6. CROSS TALK (Cross talk between the channels)

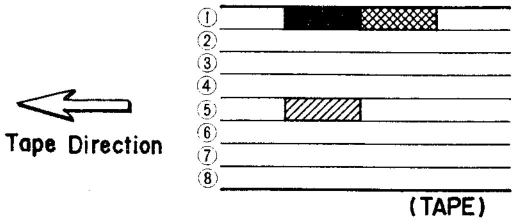


Fig. 6

As shown in Fig. 6, first record a 1,000 Hz sine wave signal on Track No. 1 at +3 VU level. Next, record under a non-input condition. Then, playback the tape on Tracks No. 1 and 5 through the B.P.F. (band pass filter sensitivity ... 1:1) and obtain a ratio between the two from the following formula:

$$C = 20 \log \frac{E_0}{E_2 - E_1} \quad \text{(dB)}$$

where,
C = Desired cross talk ratio (dB)
E_0 = 1,000 Hz signal output level ■
E_2 = 1,000 Hz cross talk level ▨
E_1 = Non-input signal recorded level ▩

7. ERASE RATIO

As shown in Fig. 4, connect a high sensitivity V.T.V.M. to the Line Output of Model GXR-82. Playback a virgin tape and take a V.T.V.M. reading of the output level. Next, record a 1,000 Hz sine wave signal at +3 dB then playback this recorded signal and take a V.T.V.M. reading of the output level. Next, using this pre-recorded tape, record under a non-input condition and take a reading of the noise level output of the erased signal and obtain a ratio between the two from the following formula:

$$E_r = 20 \log \frac{E_0}{E_2 - E_1}$$

where, E_r = Desired erase ratio (dB)
E_0 = 1,000 Hz signal output level
E_2 = Non-Input signal recorded level
E_1 = Virgin tape noise output level

8. POWER OUTPUT

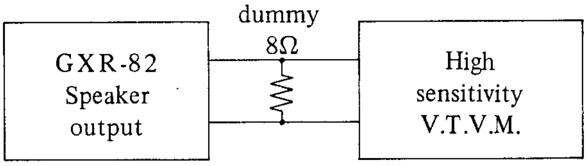


Fig. 7

As shown in Fig. 7, connect an 8Ω dummy load resistor to the speaker output of Model GXR-82 and connect this terminal to a high sensitivity V.T.V.M.

Playback a 500 Hz "0" VU pre-recorded test tape and take a V.T.V.M. reading of the output level. The resultant output can be obtained from the results of the above measurement by using the following formula:

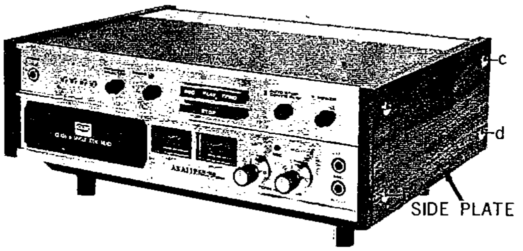
$$P = \frac{E^2}{R} \quad \text{(W)}$$

where, P = Desired power output (watts)
E = Measured voltage (R.M.S.)
R = 8Ω

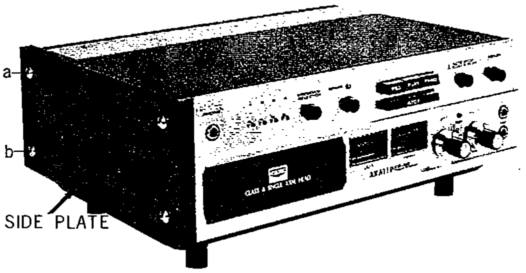
III. DISMANTLING OF UNIT

In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photogrpahs. Reassemble in reverse order.

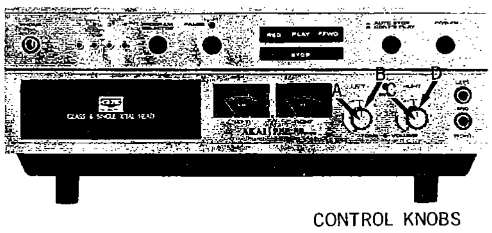
1


c
d
SIDE PLATE

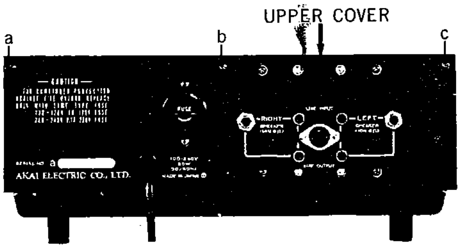
2


a
b
SIDE PLATE

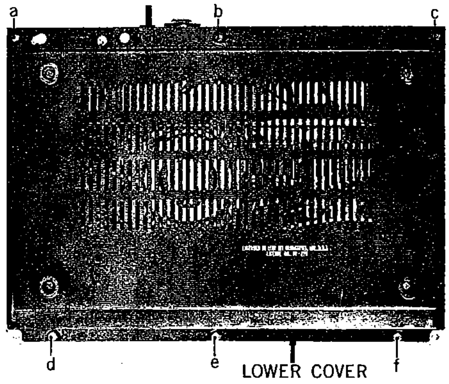
3


A
B
C
D
CONTROL KNOBS

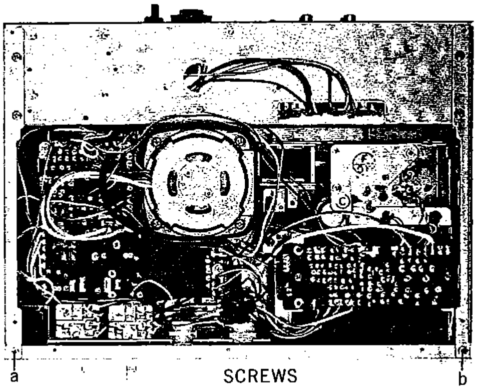
4


UPPER COVER
a
b
c

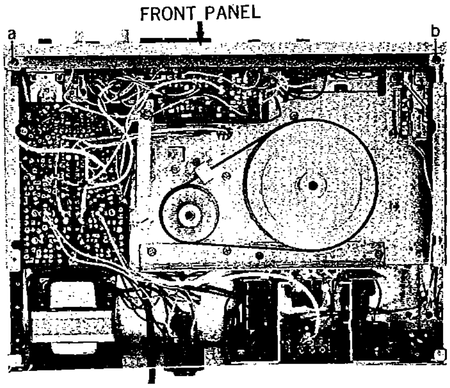
5


a
b
c
d
e
LOWER COVER
f

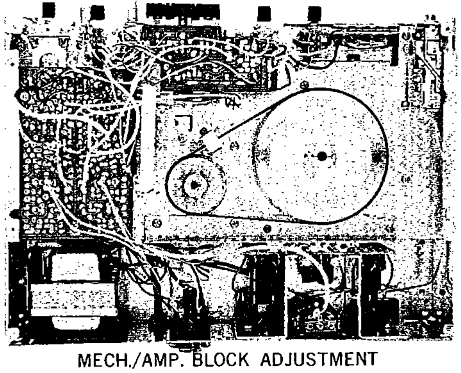
6



7


FRONT PANEL
a
b

8


MECH./AMP. BLOCK ADJUSTMENT

IV. HEAD ADJUSTMENTS

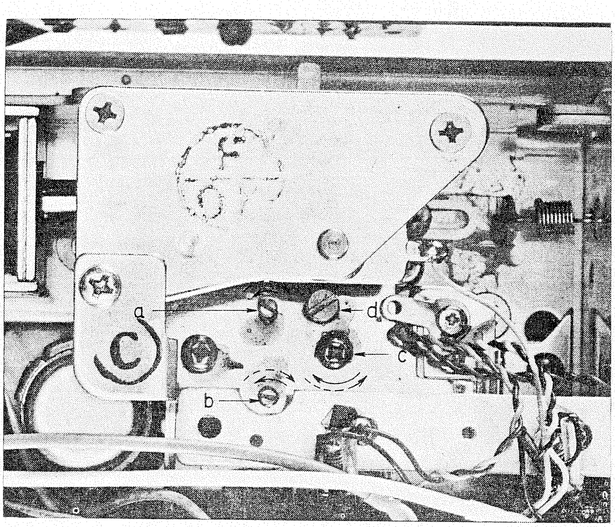


Fig. 8

1. HEAD ANGLE ADJUSTMENTS

1) Connect a High Sensitivity V.T.V.M. (Model 161A) to the Line Output.
2) Playback Program 3 of an 8,000 Hz pre-recorded Tape and adjust Screw "c" shown in Fig. 8 so that the V.T.V.M. indication is maximum.

2. HEAD HEIGHT AND TALK ADJUSTMENTS

1) Connect a High Sensitivity V.T.V.M. (Model 161A) to the Line Output.
2) Playback Program 2 of *Test Tape and adjust Screw "d" shown in Fig. 8 so that the V.T.V.M.* indication is minimum.
3) In case of GXR-82 connect speaker to speaker jack and with volume control turned to maximum, adjust Screw "d" until the sound emitted from the speaker is minimized.
4) The adjustments outlined in items 2) and 3) above will result in ideal head height position and minimize cross-talk.

*Test Tape
This Test Tape is a tape specially designed by AKAI for Head Height and Cross-Talk Adjustment tests.

Program 1 . . . 1,000 Hz
Program 2 . . . Blank
Program 3 . . . 1,000 Hz
Program 4 . . . 3,000 Hz

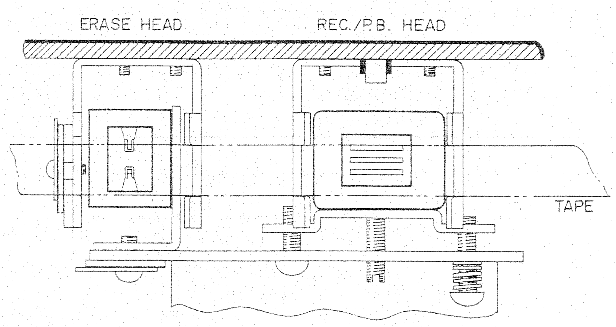


Fig. 9

3. CONFIRMATION OF HEAD HEIGHT

1) Record a 1 kHz "0" VU signal on a *Blank Test Tape. Next, run the tape under a non-signal input condition. Then playback the tape.
2) At this time check to see whether or not the recorded sound is emitted from the speaker or line output.
3) If no signal or no sound is emitted, the height of the recording and erase heads are properly adjusted. If the recorded signal has not been perfectly erased and is emitted from the speaker or line output, the recording and erase head height is not properly adjusted and the following adjustment is necessary:

   Turn screws "a" and "b" in the same direction and to the same degree and turn screw "c" in the opposite direction to the same degree. (see Fig. 8) This fine adjustment screw "c" should not be turned more than 10° and should equal the degree to which screws "a" and "b" have been adjusted.

   *It is important to understand from the beginning that the entire playback head can be moved up and down, but the erase head cannot. In other words, when the entire installation plate of both heads are moved, the erase head is set to correct position, and next, the playback head is moved up and down.

4) After the above adjustment has been carried out, it is necessary to re-adjust Head Heights and Cross-Talk. Use a *Test Tape and make the adjustments outlined in items 2-2) and 2-3) again.

*Blank Test Tape
This is also a special tape designed by AKAI. Duration of tape is only 15 seconds.

V. MECHANISM ADJUSTMENTS

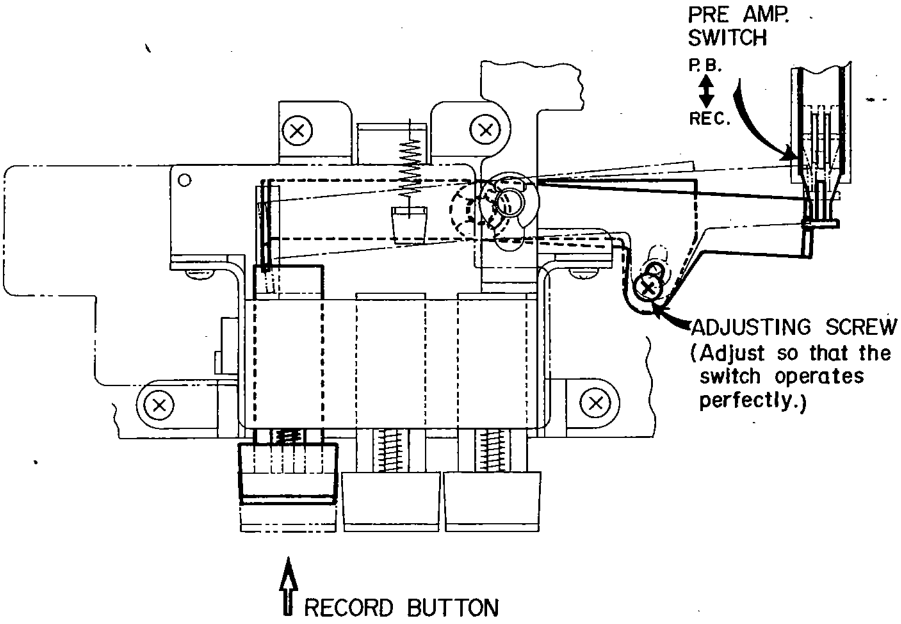

PRE AMP. SWITCH
P.B.
REC.
ADJUSTING SCREW
(Adjust so that the switch operates perfectly.)
RECORD BUTTON

Fig. 10

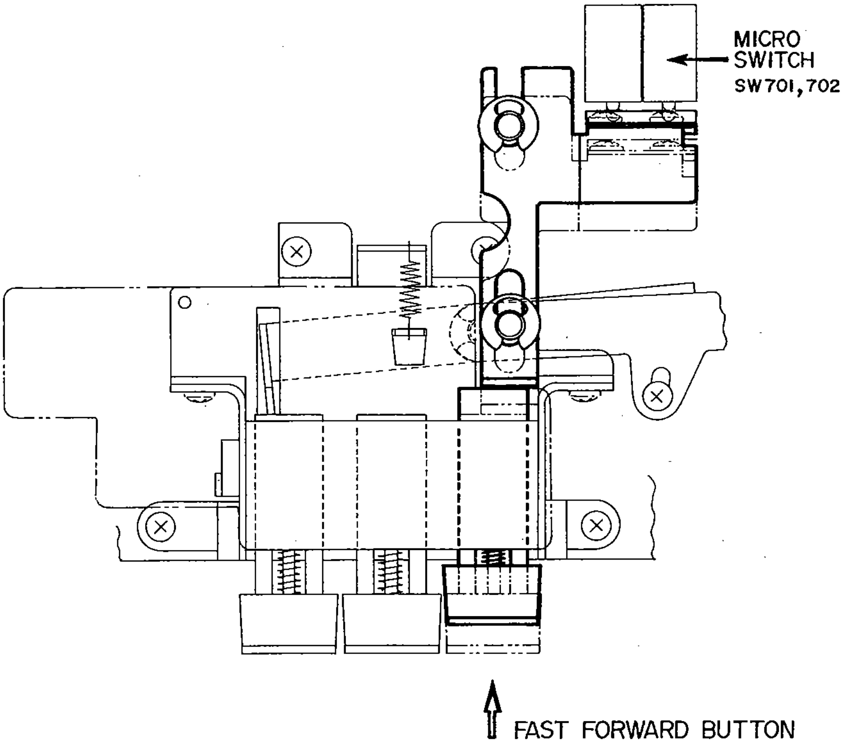

MICRO SWITCH
SW701,702
FAST FORWARD BUTTON

Fig. 11

1. RECORDING PLAYBACK SWITCH ADJUSTMENTS

Position Pre-Amp P.C. Board so that when the REC Button is depressed, the Recording Lever sets Slide Switch SW1 perfectly for effecting recording mode. (SW1 is the Rec/Play Slide Switch) (See Fig. 10)

2. POSITION ADJUSTMENT OF SWITCHES SW1 AND SW2

Depress F.FWD Button and adjust Micro Switches SW1, SW2 by bending phosphorbronze plate. Refer to Fig. 11.

*This adjustment is not necessary unless the Relay Print Board has been removed and is being returned to position.

VI. AMPLIFIER ADJUSTMENTS

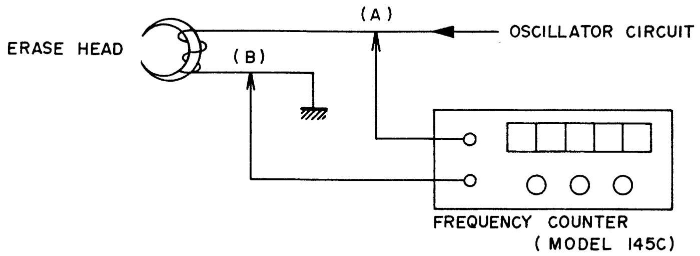

(A)
ERASE HEAD
(B)
OSCILLATOR CIRCUIT
FREQUENCY COUNTER
(MODEL 145C)

Fig. 12

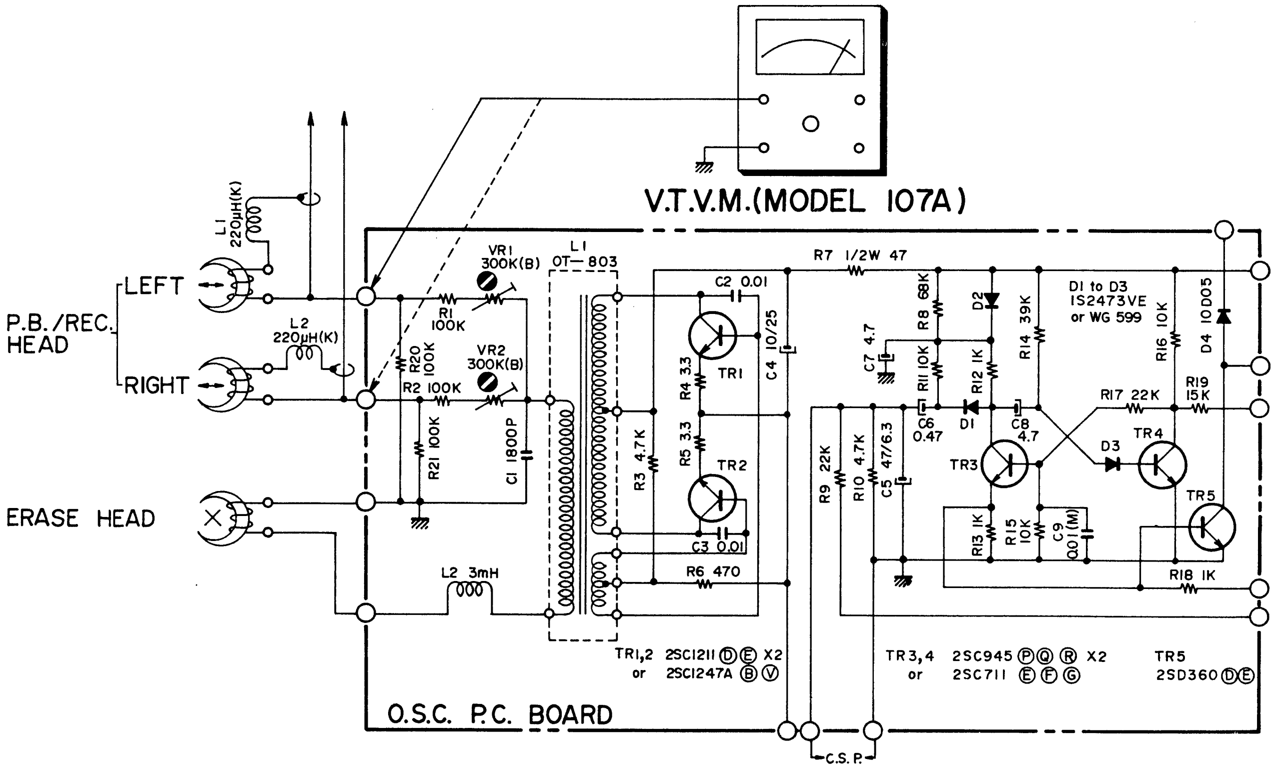

V.T.V.M.(MODEL 107A)
L1 220μH(K)
LEFT
P.B./REC. HEAD
RIGHT
L2 220μH(K)
ERASE HEAD
VR1 300K(B)
L1 OT-803
R1 100K
R20 100K
VR2 300K(B)
R2 100K
R21 100K
C1 1800P
L2 3mH
R7 1/2W 47
C2 0.01
TR1
R4 3.3
R3 4.7K
R5 3.3
TR2
C3 0.01
R6 470
C4 10/25
C7 4.7
R8 68K
R11 10K
R12 1K
D2
R14 39K
C6 0.47
D1
C8 4.7
TR3
R9 22K
R10 4.7K
C5 47/6.3
R13 1K
R15 10K
C9 0.01(M)
D1 to D3
1S2473VE
or WG 599
R16 10K
D4 10D05
R17 22K
R19 15K
D3
TR4
TR5
R18 1K
TR1,2 2SC1211 Ⓓ Ⓔ X2
or 2SC1247A Ⓑ Ⓥ
TR3,4 2SC945 Ⓟ Ⓠ Ⓡ X2
or 2SC711 Ⓔ Ⓕ Ⓖ
TR5
2SD360 Ⓓ Ⓔ
O.S.C. P.C. BOARD
C.S.P.

Fig. 13

1. RECORDING BIAS FREQUENCY ADJUSTMENTS (See Fig. 12)

1) Connect a Frequency Counter to points (A) and (B), and read the Frequency Counter indication.
2) If the Frequency Counter reading is 67 kHz±5 kHz the recording bias frequency is correct.
3) If the recording bias frequency is incorrect, it can be adjusted by adjusted by changing the value of condenser C1.

2. RECORDING BIAS VOLTAGE ADJUSTMENTS (See Fig. 13)

1) Connect a V.T.V.M. (Model 107A Type) to points (a) and (b), and measure the bias voltage.
2) Correct recording bias voltage is between 1.8 to 2.0V AC. Adjustment can be made with VR1 and VR2 respectively. Correct Erase Voltage is about 14V AC.

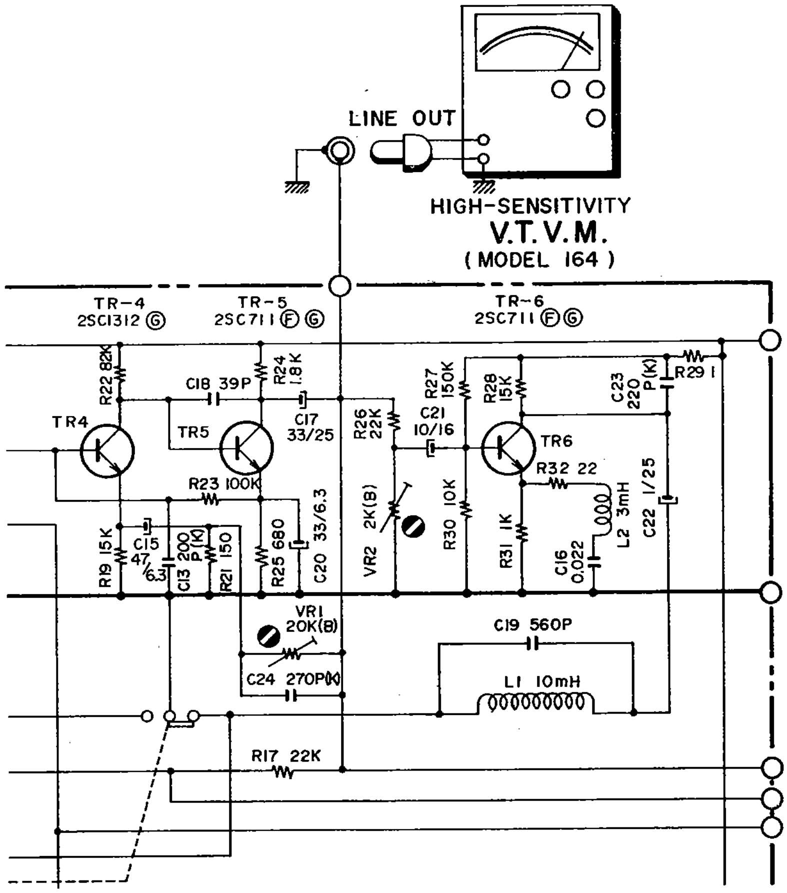

LINE OUT
HIGH-SENSITIVITY
V.T.V.M.
(MODEL 164)
TR-4
2SC1312 Ⓖ
TR-5
2SC711 Ⓕ Ⓖ
TR-6
2SC711 Ⓕ Ⓖ
R22 82K
C18 39P
R24 1.8K
C17 33/25
TR4
TR5
R23 100K
R26 22K
C21 10/16
R27 150K
R28 15K
C23 220 P(K)
R29 1
TR6
R32 22
L2 3mH
C22 1/25
VR2 2K(B)
R30 10K
R31 1K
C16 0.022
R19 15K
C15 47/6.3
C13 200 P(K)
R21 150
R25 680
C20 33/6.3
VR1
20K(B)
C24 270P(K)
C19 560P
L1 10mH
R17 22K

Fig. 14

3. PLAYBACK LEVEL ADJUSTMENTS (See Figs. 14 and 15)

1) Connect a High-Sensitivity V.T.V.M. (Model 161A) to the Line Output.
2) Turn Volume Control VR-1, VR-2 (50 kB) up to maximum.
3) Play back a test tape (500 Hz "0" VU Recorded) and turn the Potentiometer VR1 (20 kB) until the line output level reaches +4 dB(1.228V)

4. RECORDING AND PLAYBACK LEVEL ADJUSTMENTS (See Figs. 14 and 15)

1) Load a Blank Test Tape.
2) Set recorder to recording mode and turn the main volume up to maximum.
3) Supply a 1 kHz sine wave signal from an Audio Frequency Oscillator through the attenuator to the line input and adjust the attenuator so that the V.T.V.M. indicates +4 dB. (VU Meter needle indicates "0" VU.)
4) After a few seconds of recording, playback the recorded tape from the starting point and check the V.T.V.M. indication.
5) If the line output does not reach +4 dB, repeat recording and playback procedure from item 3) and adjust Potentiometer VR2 (2 kB) until +4 dB is obtained.

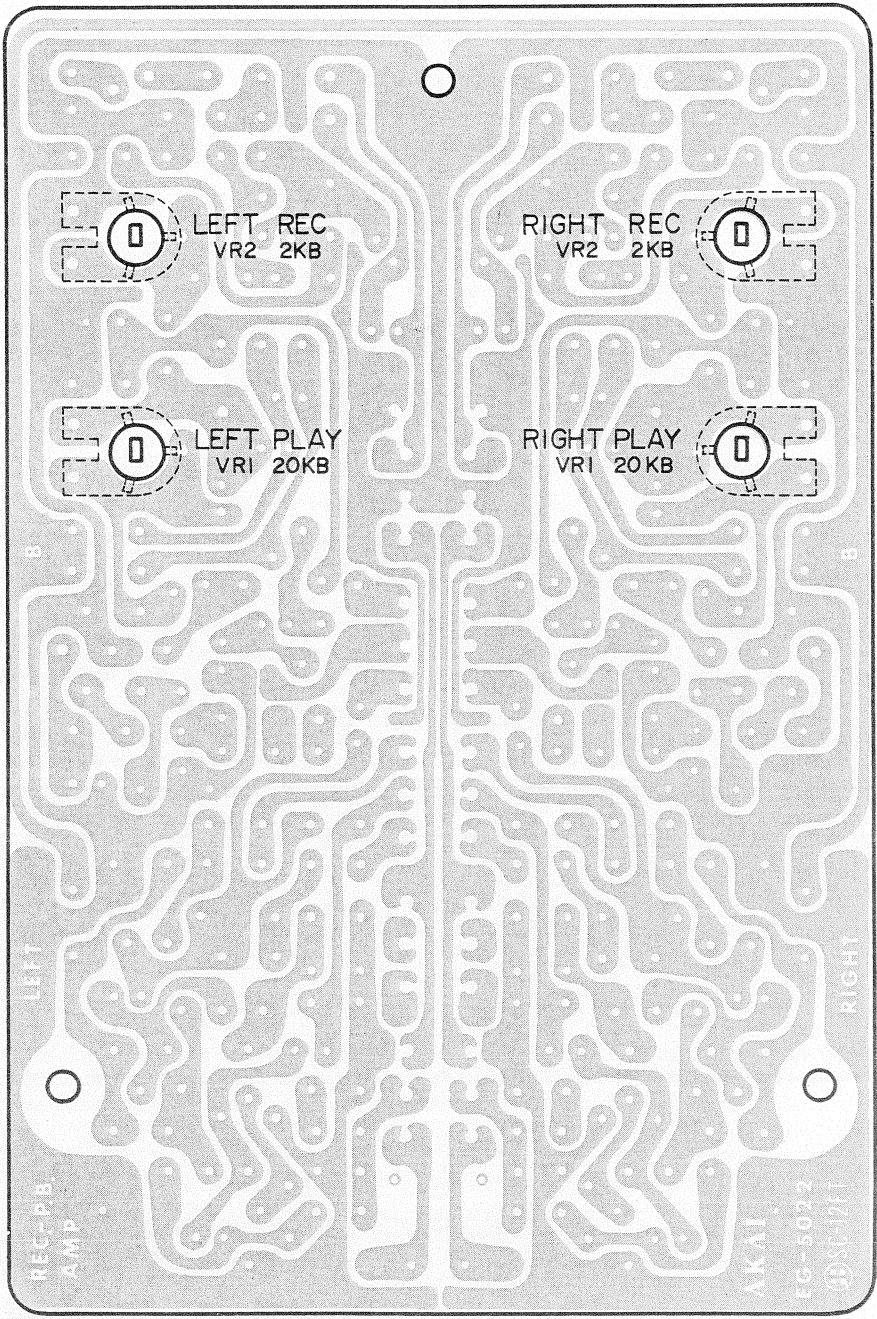
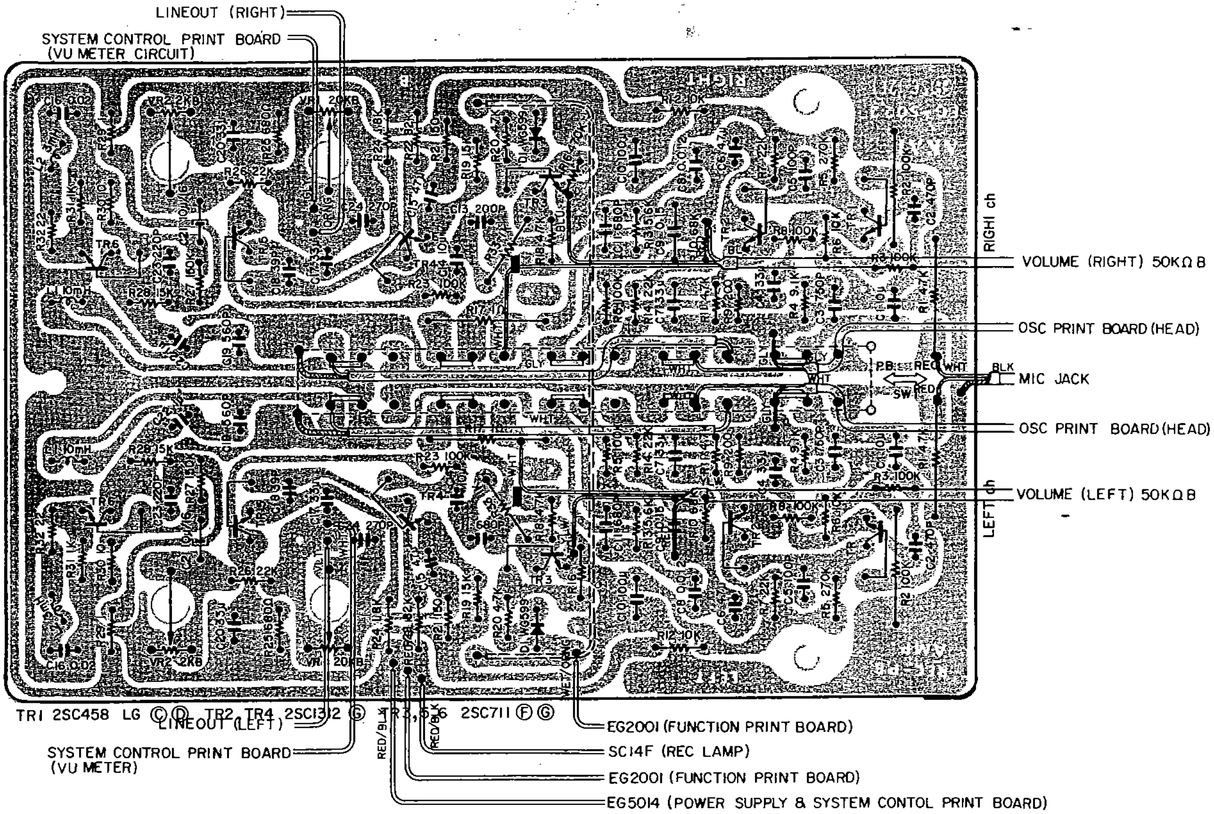

LEFT REC
VR2 2KB
RIGHT REC
VR2 2KB
LEFT PLAY
VR1 20KB
RIGHT PLAY
VR1 20KB
B
B
LEFT
RIGHT
REC-P.B.
AMP
AKAI
EG-5022
SC-12ET

Fig. 15

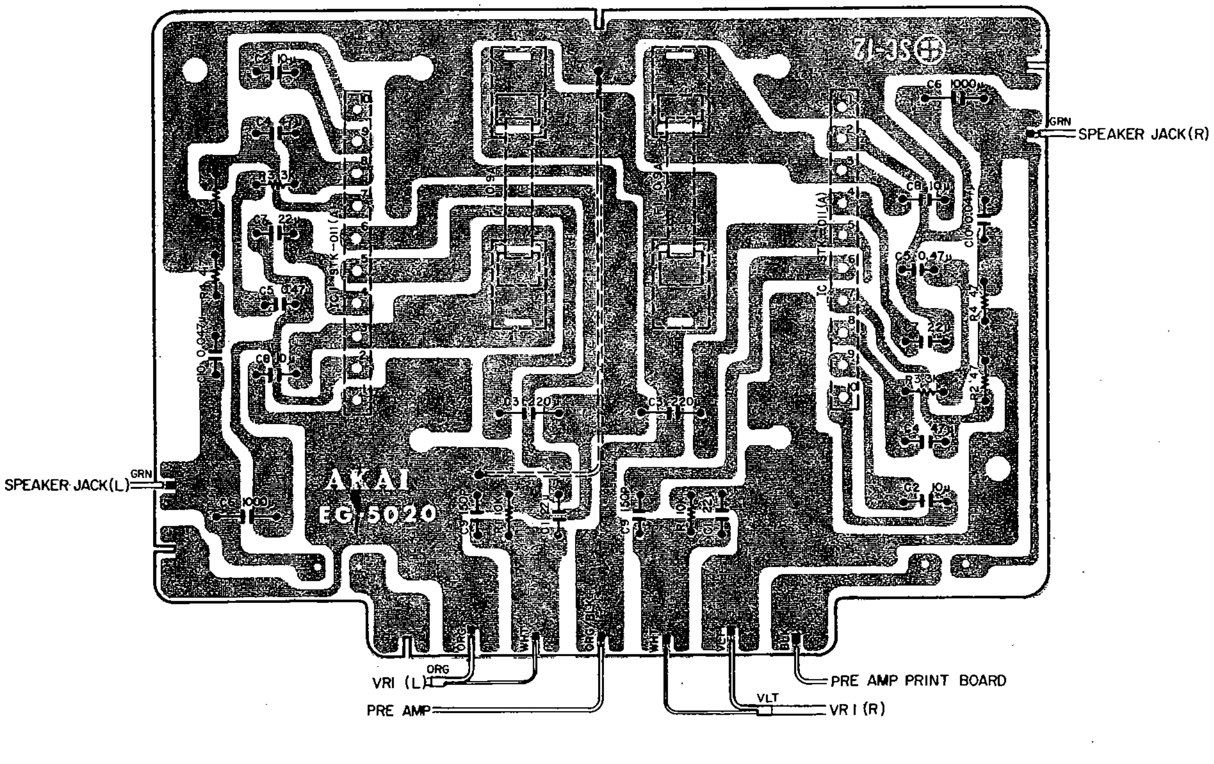
VII. COMPOSITE VIEWS OF COMPONENTS

1. PRE-AMP. P.C. BOARD EG-5022

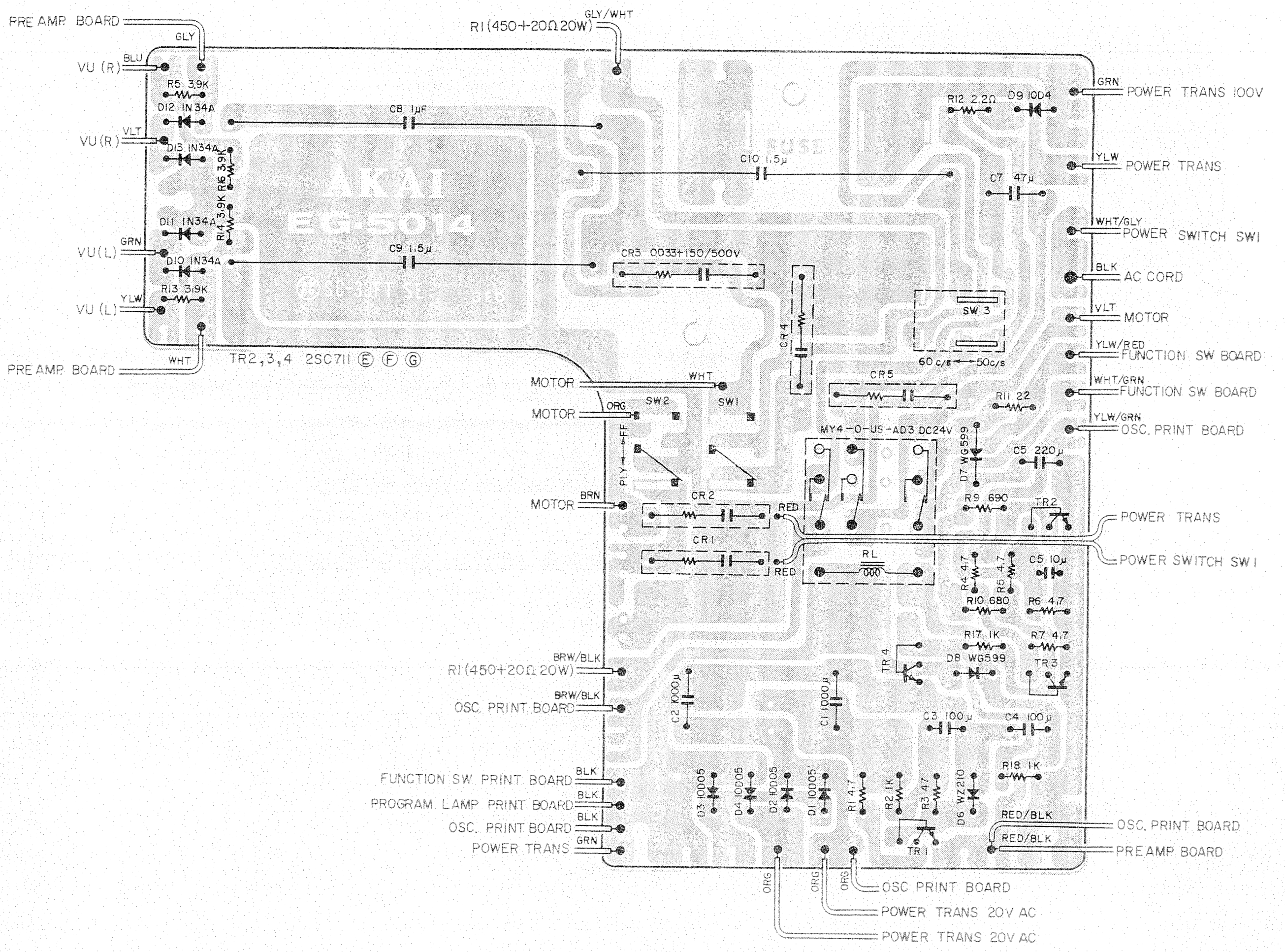

LINEOUT (RIGHT)
SYSTEM CONTROL PRINT BOARD (VU METER CIRCUIT)
RIGHT ch
VOLUME (RIGHT) 50KΩ B
OSC PRINT BOARD (HEAD)
MIC JACK
BLK
WHT
RED
P.B.
REC
SW
OSC PRINT BOARD (HEAD)
LEFT ch
VOLUME (LEFT) 50KΩ B
LINEOUT (LEFT)
SYSTEM CONTROL PRINT BOARD (VU METER)
RED/BLK
RED/BLK
EG2001 (FUNCTION PRINT BOARD)
SC14F (REC LAMP)
EG2001 (FUNCTION PRINT BOARD)
EG5014 (POWER SUPPLY & SYSTEM CONTOL PRINT BOARD)

TR1 2SC458 LG ⒸⒹ TR2, TR4 2SC1312 Ⓖ TR3,5,6 2SC711 ⒻⒼ

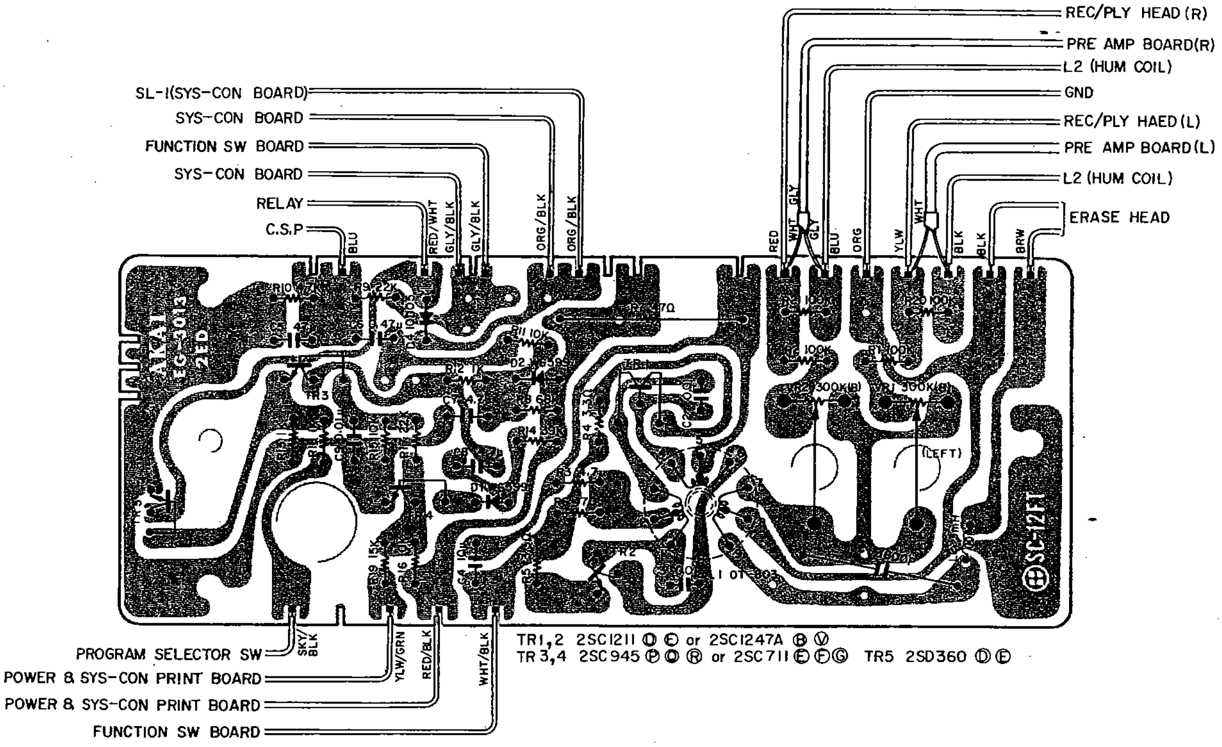
2. MAIN AMP. P.C. BOARD EG-5020


AKAI
EG-5020
SC-12
GRN
SPEAKER JACK (R)
GRN
SPEAKER JACK (L)
ORG
VR1 (L)
PRE AMP
VLT
VR1 (R)
PRE AMP PRINT BOARD

3. POWER SUPPLY & SYS-CON. P.C. BOARD EG-5014

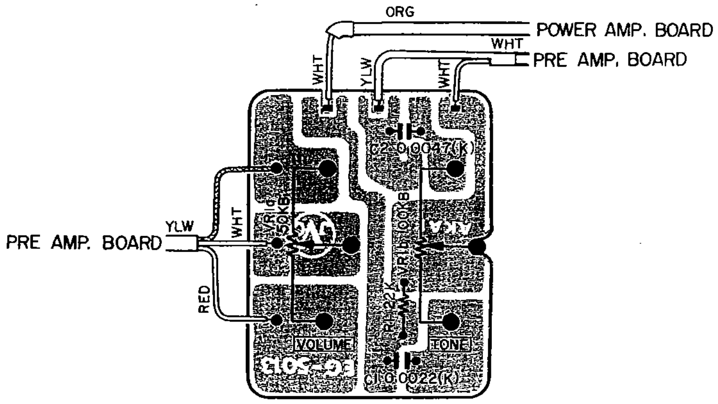

PRE AMP. BOARD
GLY
GLY/WHT
R1 (450+20Ω 20W)
BLU
VU (R)
R5 3.9K
D12 1N34A
C8 1μF
VLT
VU (R)
D13 1N34A
R16 3.9K
R14 3.9K
D11 1N34A
GRN
VU (L)
D10 1N34A
C9 1.5μ
R13 3.9K
YLW
VU (L)
PRE AMP. BOARD
WHT
TR2,3,4 2SC711 Ⓔ Ⓕ Ⓖ
AKAI
EG-5014
FUSE
C10 1.5μ
CR3 .0033+150/500V
CR4
R12 2.2Ω
D9 10D4
C7 47μ
GRN
POWER TRANS 100V
YLW
POWER TRANS
WHT/GLY
POWER SWITCH SW1
BLK
AC CORD
VLT
MOTOR
SW 3
60 c/s ← → 50c/s
YLW/RED
FUNCTION SW BOARD
WHT/GRN
FUNCTION SW BOARD
YLW/GRN
OSC. PRINT BOARD
MOTOR
WHT
MOTOR
ORG
SW2
SW1
CR5
R11 22
MY4-O-US-AD3 DC24V
D7 WG599
C5 220μ
PLY ← → FF
MOTOR
BRN
CR 2
RED
R9 690
TR2
POWER TRANS
CR 1
RED
RL
R4 4.7
R5 4.7
C5 10μ
POWER SWITCH SW1
R10 680
R6 4.7
R17 1K
R7 4.7
TR 4
D8 WG599
TR3
BRW/BLK
R1 (450+20Ω 20W)
BRW/BLK
OSC. PRINT BOARD
C2 1000μ
C1 1000μ
C3 100μ
C4 100μ
R18 1K
FUNCTION SW PRINT BOARD
BLK
PROGRAM LAMP PRINT BOARD
BLK
OSC. PRINT BOARD
BLK
POWER TRANS
GRN
D3 10D05
D4 10D05
D2 10D05
D1 10D05
R1 4.7
R2 1K
R3 47
D6 WZ210
TR 1
RED/BLK
OSC. PRINT BOARD
RED/BLK
PREAMP BOARD
ORG
ORG
ORG
OSC PRINT BOARD
POWER TRANS 20V AC
POWER TRANS 20V AC

4. OSC. P.C. BOARD EG-3013

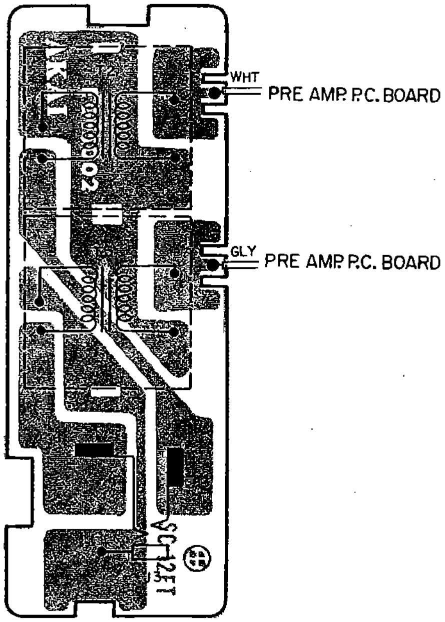

REC/PLY HEAD (R)
PRE AMP BOARD(R)
L2 (HUM COIL)
GND
REC/PLY HAED (L)
PRE AMP BOARD (L)
L2 (HUM COIL)
ERASE HEAD
SL-1(SYS-CON BOARD)
SYS-CON BOARD
FUNCTION SW BOARD
SYS-CON BOARD
RELAY
C.S.P
BLU
RED/WHT
GLY/BLK
GLY/BLK
ORG/BLK
ORG/BLK
RED
WHT
GLY
BLU
ORG
YLW
WHT
BLK
BRW
AKAI EG-3013 2ED
(LEFT)
SC-12FT
PROGRAM SELECTOR SW
POWER & SYS-CON PRINT BOARD
POWER & SYS-CON PRINT BOARD
FUNCTION SW BOARD
SKY/BLK
YLW/GRN
RED/BLK
WHT/BLK

TR1,2 2SC1211 Ⓓ Ⓔ or 2SC1247A Ⓑ Ⓥ
TR3,4 2SC945 Ⓟ Ⓠ Ⓡ or 2SC711 Ⓔ Ⓕ Ⓖ TR5 2SD360 Ⓓ Ⓔ

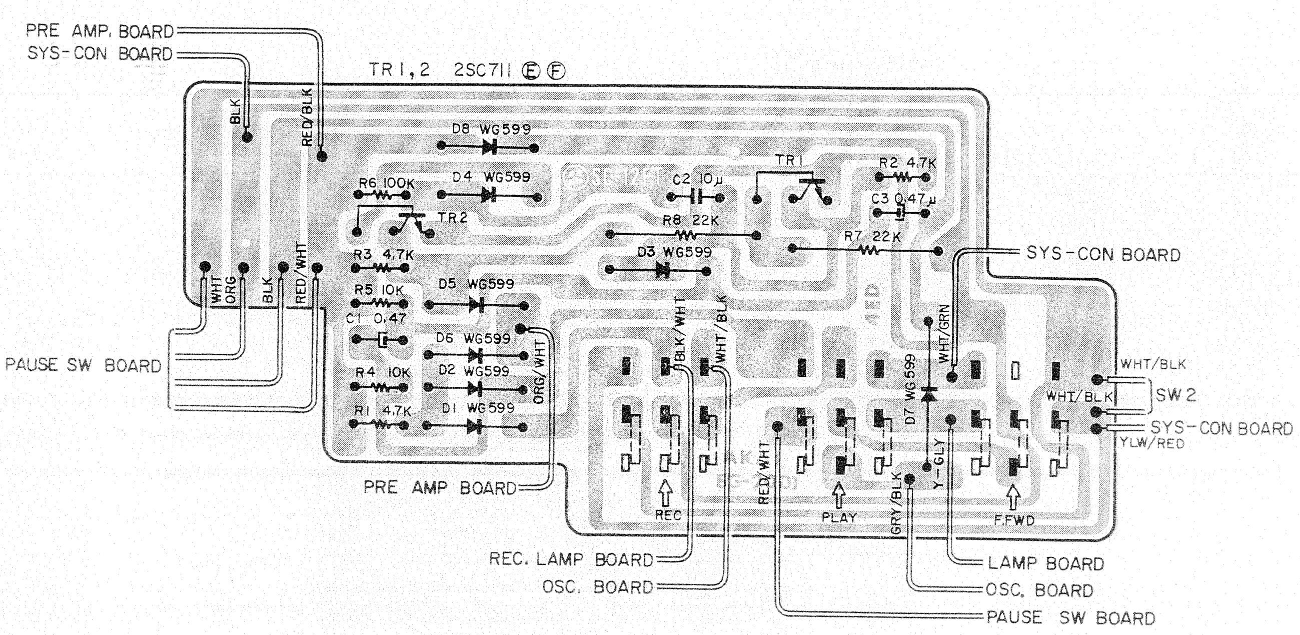
5. TONE CONTROL P.C. BOARD EG-5013


ORG
POWER AMP. BOARD
WHT
PRE AMP. BOARD
WHT
YLW
WHT
C2 0.0047(K)
PRE AMP. BOARD
YLW
WHT
RED
VOLUME
TONE
C1 0.0022(K)
EG-5013

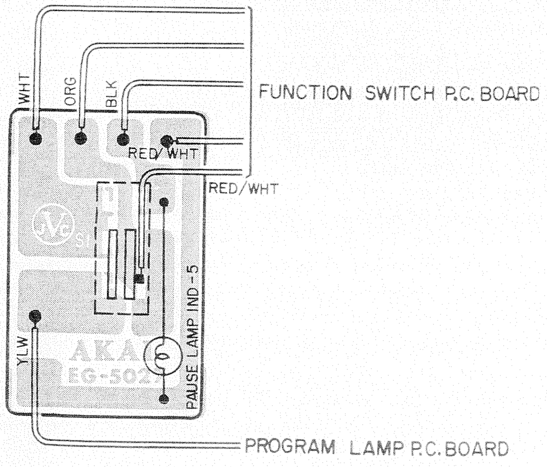
6. HEADPHONE P.C. BOARD EG-5002


WHT
PRE AMP. P.C. BOARD
GLY
PRE AMP. P.C. BOARD
SC-12FT

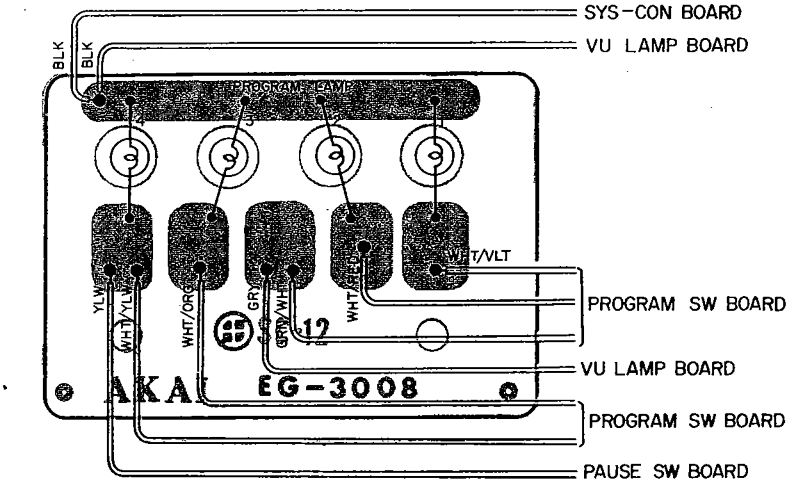
7. FUNCTION SW. P.C. BOARD EG-2001


PRE AMP. BOARD
SYS-CON BOARD
TR 1, 2 2SC711 Ⓔ Ⓕ
BLK
RED/BLK
D8 WG599
D4 WG599
R6 100K
TR2
C2 10μ
TR 1
R2 4.7K
C3 0.47μ
R8 22K
R7 22K
D3 WG599
R3 4.7K
R5 10K
D5 WG599
C1 0.47
D6 WG599
R4 10K
D2 WG599
R1 4.7K
D1 WG599
WHT
ORG
BLK
RED/WHT
PAUSE SW BOARD
ORG/WHT
BLK/WHT
WHT/BLK
4ED
WHT/GRN
D7 WG599
Y-GLY
GRY/BLK
RED/WHT
SYS-CON BOARD
WHT/BLK
WHT/BLK
SW 2
SYS-CON BOARD
YLW/RED
REC
PLAY
F.FWD
PRE AMP BOARD
REC. LAMP BOARD
OSC. BOARD
LAMP BOARD
OSC. BOARD
PAUSE SW BOARD

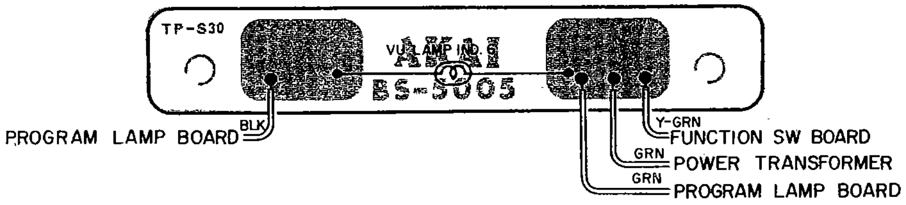
8. PAUSE SW. P.C. BOARD EG-5027


WHT
ORG
BLK
RED/WHT
RED/WHT
FUNCTION SWITCH P.C. BOARD
YLW
PAUSE LAMP IND-5
PROGRAM LAMP P.C. BOARD

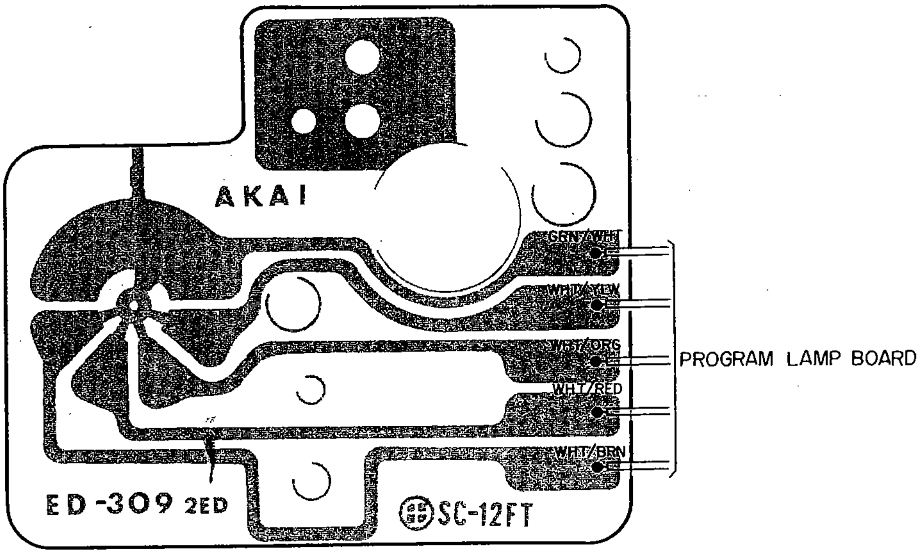
9. SELECTOR LAMP P.C. BOARD EG-3008


SYS-CON BOARD
VU LAMP BOARD
BLK
BLK
PROGRAM LAMP
4
3
WHT/VLT
PROGRAM SW BOARD
YLW
WHT/YLW
WHT/ORG
GRY
GRY/WHT
WHT/RED
SC-12
VU LAMP BOARD
AKAI
EG-3008
PROGRAM SW BOARD
PAUSE SW BOARD

10. LAMP P.C. BOARD BS-5005


TP-S30
VU LAMP IND. 6
AKAI
BS-5005
PROGRAM LAMP BOARD
BLK
Y-GRN
FUNCTION SW BOARD
GRN
POWER TRANSFORMER
GRN
PROGRAM LAMP BOARD

11. CART. P.C. BOARD ED-309


AKAI
GRN/WHT
WHT/YLW
WHT/ORG
WHT/RED
WHT/BRN
PROGRAM LAMP BOARD
ED-309 2ED
SC-12FT

SECTON 2

PARTS LIST

TABLE OF CONTENTS

FIG. 1 CARTRIDGE HEAD BLOCK 20
FIG. 2 MOTOR/FLYWHEEL BLOCK 22
FIG. 3 FUNCTION SW. BLOCK 24
FIG. 4 VOLUME CHASSIS BLOCK 26
FIG. 5 POWER SUPPLY ASSEMBLY BLOCK 27
FIG. 6 PRE-AMP. P.C. BOARD (EG-5022) BLOCK 29
FIG. 7 MAIN AMP. (EG-5020) BLOCK.................. 30
FIG. 8 POWER/SYS. CON. P.C. BOARD (EG-5014) BLOCK.. 31
FIG. 9 OSC. P.C. BOARD (EG-3013) BLOCK............. 32
FIG. 10 FINAL ASSEMBLY BLOCK 33
INDEX 34

HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.
2. When ordering parts, please describe parts number, serial number, and model number in detail.
3. How to read list.

The reference number corresponds with illustration or photo number of that particular parts list.

This number corresponds with the Figure Number.

This number corresponds with the individual parts index number in that figure.

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

12-115x

Schematic Diagram Number of individual manufactured part.
(not required for parts order)

Quantity of particular part required.

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		FLYWHEEL BLOCK #13		
12-115x	800425	Flywheel Block Assy. Comp.	RDG #13	1
12-116	244506	Flywheel Only	RD-233	1
12-117x	244754	Felt, Flywheel	RD-275	1
12-118	251324	Main Metal Case	RD-236	1
12-119	253080	Main Metal	RD-237	1

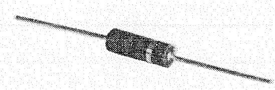
4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of components of the Schematic Diagram or Service Manual.
5. The indications of Resistors and Capacitors in the photos of P.C. Board are being eliminated.
6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.

   It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

ELECTRICAL PARTS TABLE

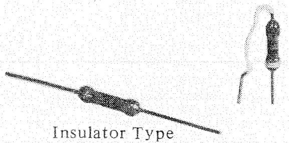
Because the indication of resistors and capacitors in the P. C. Board photos are being eliminated, please confirm parts name and shape by comparing them with the parts shown in this table.

1



Solid Resistor

2

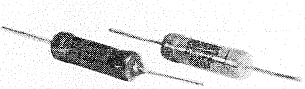


Stopper Type

Insulator Type

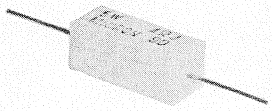
Carbon Resistor

3



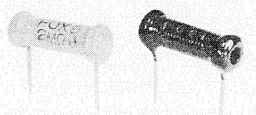
Metal Oxide Film Resistor

4



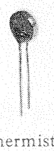
Cement Resistor

5



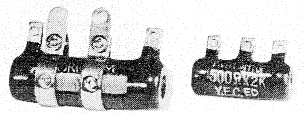
Wire-Wound Resistor

6



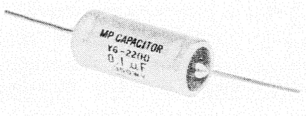
Thermister

7



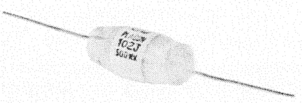
Enamel Resistor

1



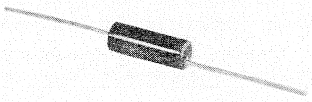
MP Capacitor (Tubular Type)

2



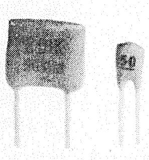
Plastic Capacitor

3



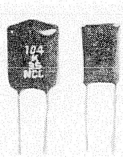
Mylar Capacitor

4



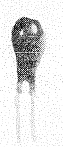
VFM (Hi-Q) Capacitor

5



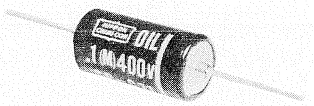
Mylar Capacitor

6



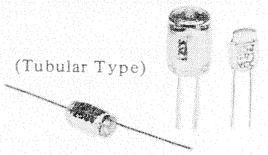
Tantalum Capacitor

7



Oil Capacitor (Tubular Type)

8

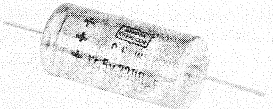


Vertical Type

(Tubular Type)

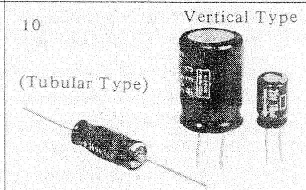
Styrol Capacitor

9



Electrolytic Capacitor (Tubular Type)

10

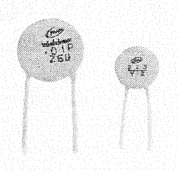


Vertical Type

(Tubular Type)

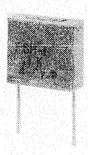
Electrolytic Capacitor

11



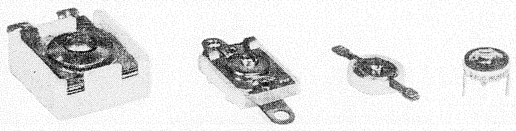
Ceramic Capacitor

12



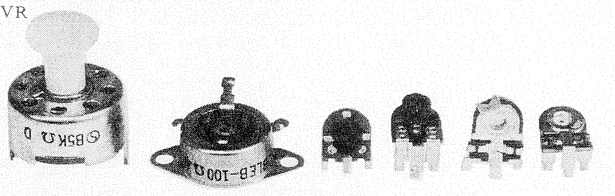
Metalized Mylar (Paper) Capacitor

13



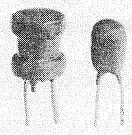
Trimmer Condenser

VR



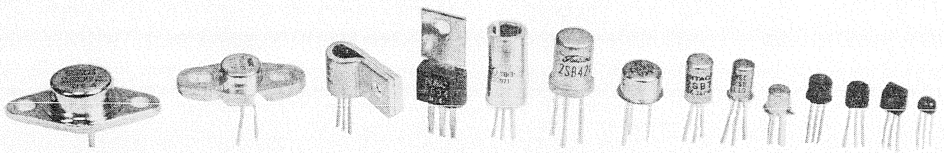
Semi-Fixed Volume

L



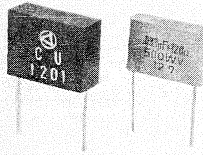
Ferri Inductor

TR



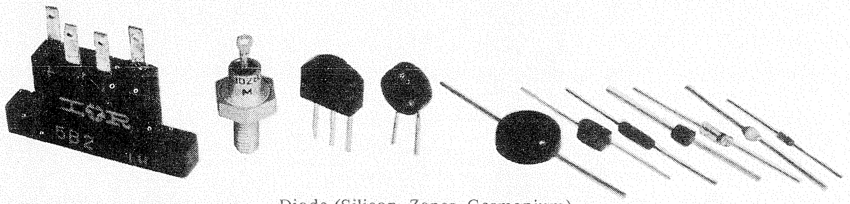
Transistor

CR



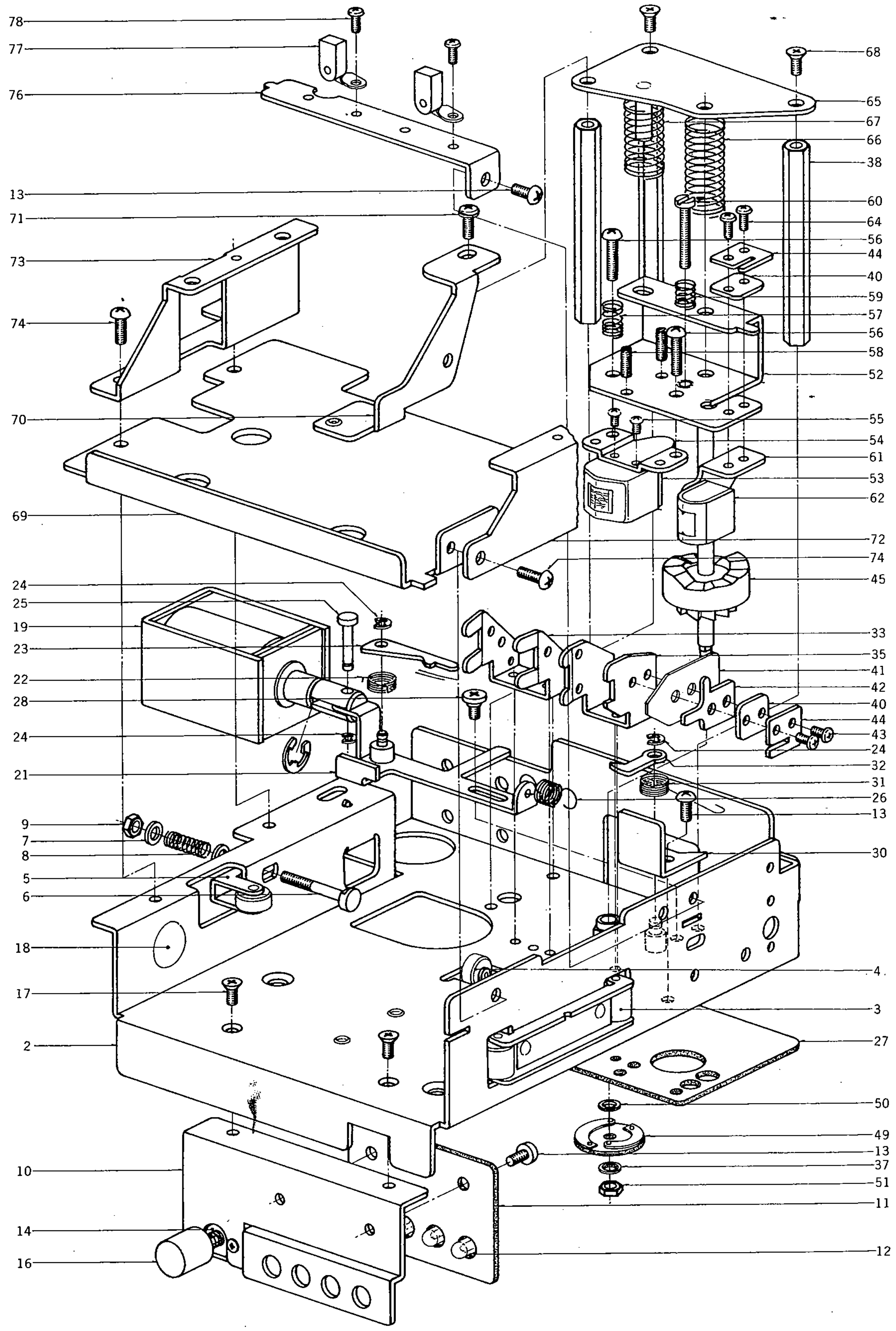
Spark Quencher

D



Diode (Silicon, Zener, Germanium)

FIG. 1 ILLUSTRATION OF CARTRIDGE HEAD BLOCK



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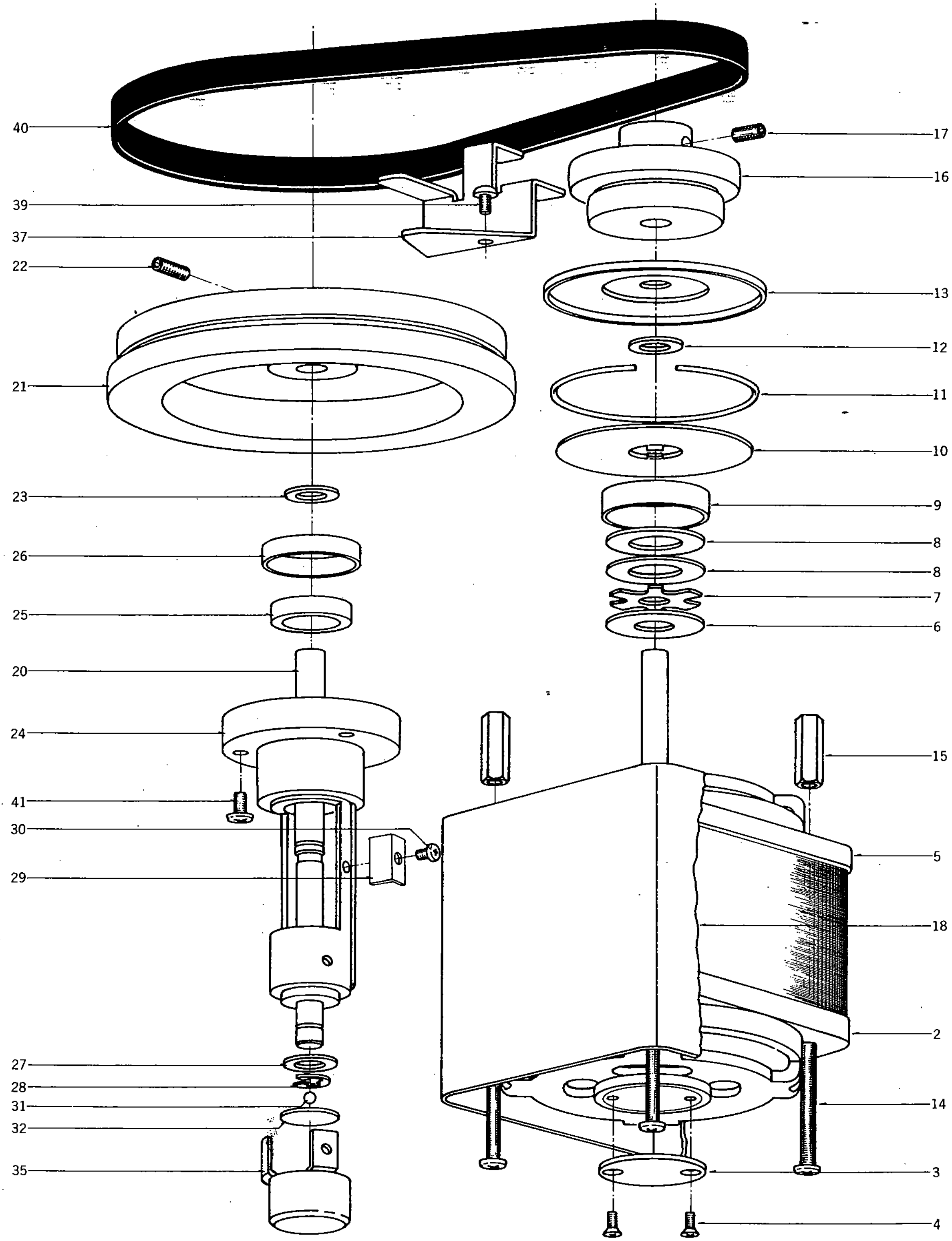
12

CARTRIDGE HEAD BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
1-1x	BH556918	Cartridge Head Block Assy. Comp.	EG	1
1-2	HZ544162	Base Frame C	ED-B322	1
1-3	HZ461485	Side Roller Frame, w/roller	ED-B335	1
1-4	HZ465682	Roller Arm Comp.	ED-B017	1
1-5	HZ465693	Main Roller Arm Comp.	ED-B016	1
1-6	ZS465344	Adjust Screw	ED-B340	1
1-7	ZW465715	Washer (SPC) D3.2x6x0.5t		1
1-8	ZG465142	Main Roller Spring	ED-B341	1
1-9	ZW273756	Nut M3		1
1-10	HZ544138	Selector Base	EG-3007	1
1-11	EA543767	Selector P.C. Board	EG-3008	1
1-12	EL368774	Lamp 6.3V 180mA	28-2-10	4
1-13	ZS447772	Tapping Screw #2 3x6 (BR)		6
1-14	ES490735	Push SW. SPJ-10201	25-5-69	1
1-15x	ZS524812	Screw, countersunk head 2x4		2
1-16	SK371621	PTA Knob (Black)	ED-615	1
1-17	ZS200676	Tapping Screw #2 3x6(Countersunk)		2
1-18	HZ465390	Side Bush C	ED-B327	1
1-19	EP561352	Plunger Solenoid SDC-840THT1	44-1-60	1
1-20x	ZW560171	ISO Screw, pan head 3x5		4
1-21	WM545477	Pull Lever C, w/boss	EG-3015	1
1-22	ZG244394	Hook Spring	RC-39	1
1-23	WM545488	Crown Hook B	EG-3016	1
1-24	ZW270088	'E' Ring 1.9M	6-1-9	3
1-25	MH303682	Plunger Lever Pin	RX-291	1
1-26	ZG256926	Lever Spring	RC-38	1
1-27	EA371272	Cart. P.C. Board ED	ED-309	1
1-28	ZS220061	Graduated Screw (small)	RC-19	1
1-29x	ZW273690	Nut M2.3		1
1-30	HZ436814	Back Stopper	ED-314	1
1-31	ZG226708	Stopper Spring	RC-40	1
1-32	HZ218327	Crown Stopper	RC-20	1
1-33	HZ461507	Tape Guide B	ED-B343	1
1-34x	ZS202296	Screw, round head 2.3x5		2
1-35	HZ547727	Erase Tape Guide	EG-3019	1
1-36x	ZS202307	Screw, round head 2.3x6		2
1-37	ZW269785	Toothed Lock Washer M2.3		3
1-38	HZ225213	Hold-down Table Prop	RC-68	3
1-39x	ZS336857	Screw, round head 3x8		3
1-40	HZ229026	Insulator Bush	RC-77	2
1-41	HZ369786	Mylar Seat	RCC-304	1
1-42	HZ549393	Sensing Plate	EG-0011	1
1-43	ZS201903	Screw, binding head 2.3x4		2
1-44	ZW369843	EH Insulator Washer	RCC-310	2
1-45	HZ545490	Crown Cam B, w/shaft	EG-3017	1
1-46x	ZW259738	Washer (Polyslider) D4.1x7x0.25t		1
1-47x	ZW420682	Washer (Nylon) D4.2x9x0.5t		2
1-48x	ZW259738	Washer (Polyslider) D4.1x7x0.25t		1
1-49	HZ390960	SW. Base Comp.	RC-84	1
1-50	ZW259650	Washer (PBP) D3x5x0.2t		1
1-51	ZW273690	Nut M2.3		1
1-52	HZ543600	Hold-down Table, w/boss	EG-0001	1
1-53	HR556920	REC./P.B. HEAD P8-30		1
1-54	HZ258456	Rec. Head Mt. Plate	RC-63	1
1-55	ZS202353	Screw, round head 2x2		2
1-56	ZS336868	Screw, round head 3x12		2
1-57	ZG303300	Angle Adjust Spring B	RD-55	1
1-58	ZS437883	Set Screw 3x8 (Cup/p.)		2
1-59	ZG303761	ST Spring	RC-76	1
1-60	ZS256476	Lifter Screw	RC-10	1
1-61	HZ566010	Erase Head Mt. Plate	EG-0010	1
1-62	HE224122	ERASE HEAD E8-1	700756	1
1-63x	ZS371777	Screw, countersunk Head 2x3		2
1-64	ZS201914	Screw, binding head 2.3x5		2
1-65	HZ253620	Metal Base, w/prop	RC-66	1
1-66	ZG309745	Hold-down Spring A, RC	RC-69	1
1-67	ZG309756	Hold-down Spring B, RC	RC-69	1
1-68	ZS200417	Screw, countersunk head 3x6		2
1-69	HZ461518	Lower Frame	ED-B326	1
1-70	HZ465726	Cart. Reinforcement Plate	ED-B328	1
1-71	ZS417025	Screw, binding head 3x8, w/washer		1
1-72	HZ544151	P.C. Board Retainer (Left)	EG-3010	1
1-73	HZ544140	P.C. Board Retainer (Right)	EG-3009	1
1-74	ZS447840	Tapping Screw #2 3x8 (BR)		4
1-75x	BA556931	OSC. P.C. Board Comp. GXR-82/D	EG-3013	1
1-76	HZ465445	Canceler Table B	ED-B330	1
1-77	EO394356	Hum Backing Coil (small) 220μH(K)	23-3-26	2
1-78	ZS201925	Screw, binding head 2.3x5		2

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

FIG. 2 ILLUSTRATION OF MOTOR/FLYWHEEL BLOCK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MOTOR/FLYWHEEL BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
	MOTOR BLOCK			
2-1x	BM432257	Motor Block Comp.	EF, EG	1
2-2	MZ395144	Motor Cover B, 900 (w/metal)	900-709	1
2-3	MZ373307	Motor Bottom Plate, ED	ED-706	1
2-4	ZS433620	Screw, countersunk head 3x5 D=4.5		2
2-5	MZ395166	Motor Cover A, 900 (w/metal)	900-707	1
2-6	MZ217620	Rubber Ring, Cap (Large)	900-742	2
2-7	MZ237262	Flower Shaped Nylon A	900-723	1
2-8	MZ296346	Moltplane (900 Type)	900-727	2
2-9	MZ300565	Oil Cap (900 Type)	900-726	1
2-10	MZ300734	Felt Plate, 900	900-722	1
2-11	MZ244192	Felt Retaining Ring	900-724	1
2-12	ZW260245	Washer (Nylon) D7.9x13x1t		1
2-13	MZ253956	Motor Oil Cap D	900-725	1
2-14	ZS427037	Screw, pan head 4x50, w/washer		4
2-15	ZW400713	Motor Hexagon Nut, ED	ED-707	4
2-16	MR371452	Motor Pulley, ED	ED-701	1
2-17	ZS459033	Set Screw, hexagon socket 5x5 (Cup/p.)		2
2-18	MZ431335	Motor Shield	ED-B701	1
	FLYWHEEL BLOCK			
2-19x	BF372464	Flywheel Block Comp.		1
2-20	MS370956	Main Shaft	ED-202	1
2-21	MI370945	Flywheel	ED-201	1
2-22	ZS373577	Set Screw, hexagon socket 5x6 (Flat/P.)		2
2-23	MZ370991	Oil Cut	ED-206	1
2-24	MZ370967	Main Case, w/metal A,B	ED-203	1
2-25	MZ371002	Main Metal Felt A, ED	ED-207	1
2-26	MZ371035	Main Metal Cap	ED-210	1
2-27	ZW371913	Washer (Nylon) D7.1x13.6x0.5t		2
2-28	ZW270134	'E' Ring 5M	6-1-9	1
2-29	WM459000	Tape Stopper	ED-B121	1
2-30	ZS356668	Screw, binding head 2.3x4		1
2-31	MV368886	Steel Ball D3		1
2-32	WM466727	Nylon Spacer (t=0.5)	ED-233	1
2-33x	WM513674	Nylon Spacer A (t=0.8)	ED-233	1
2-34x	WM513685	Nylon Spacer B (t=1.0)	ED-233	1
2-35	WM466435	Oil Cover Support	ED-232	1
2-36x	ZS418858	Screw, countersunk head 3x5 D=5		3
2-37	WM598487	Belt Guide C	EG-5070	1
2-38x	WM495674	Belt Guide (UL)	ED-1001	1
2-39	ZS447772	Tapping Screw #2 3x6 (BR)		1
2-40	MB238768	Drive Belt, RD(Flat) D120x7x1.6	RD-129	1
2-41	ZS413201	Screw, pan head 4x8		3

FIG. 3 a ILLUSTRATION OF FUNCTION SW. BLOCK

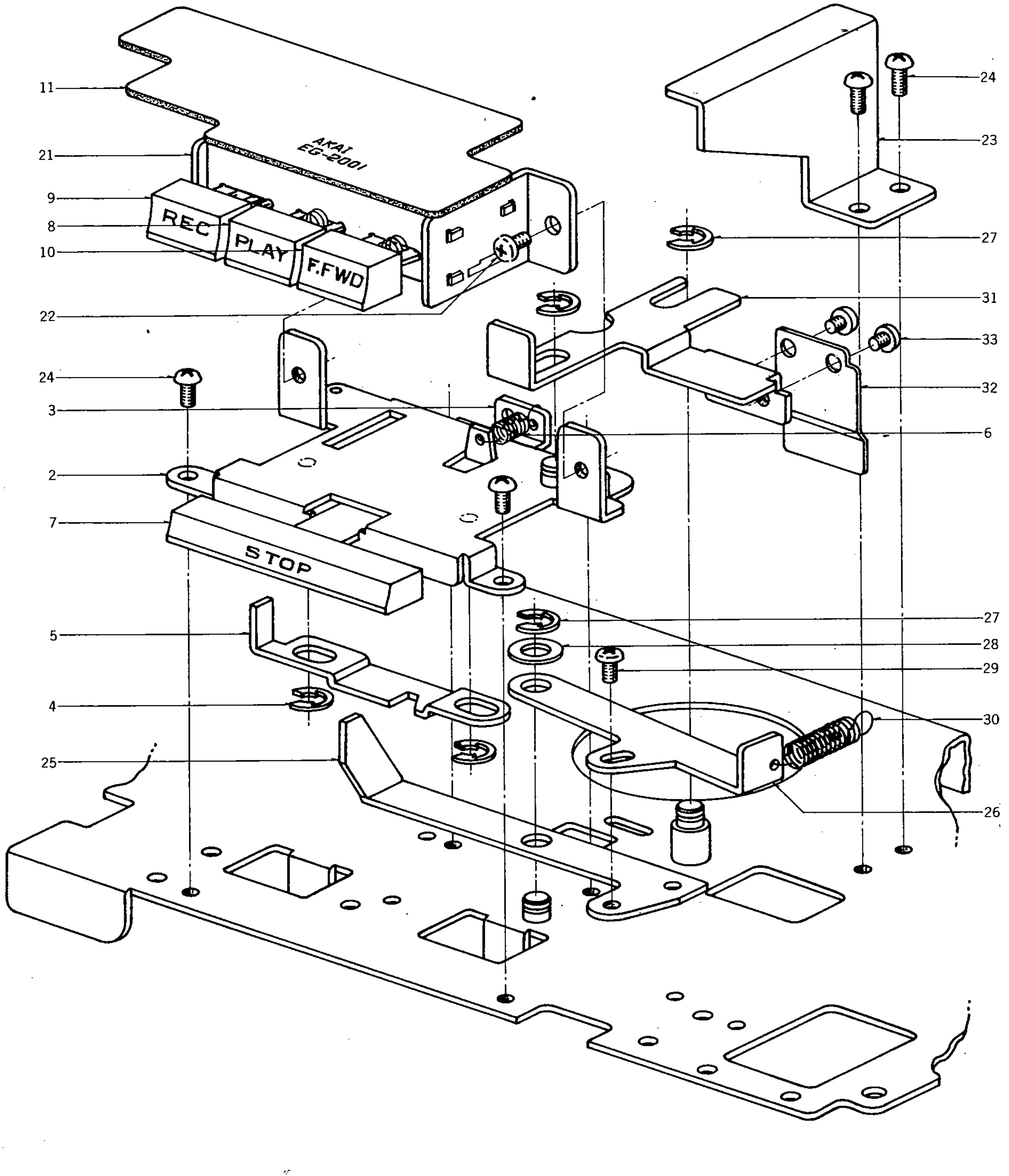
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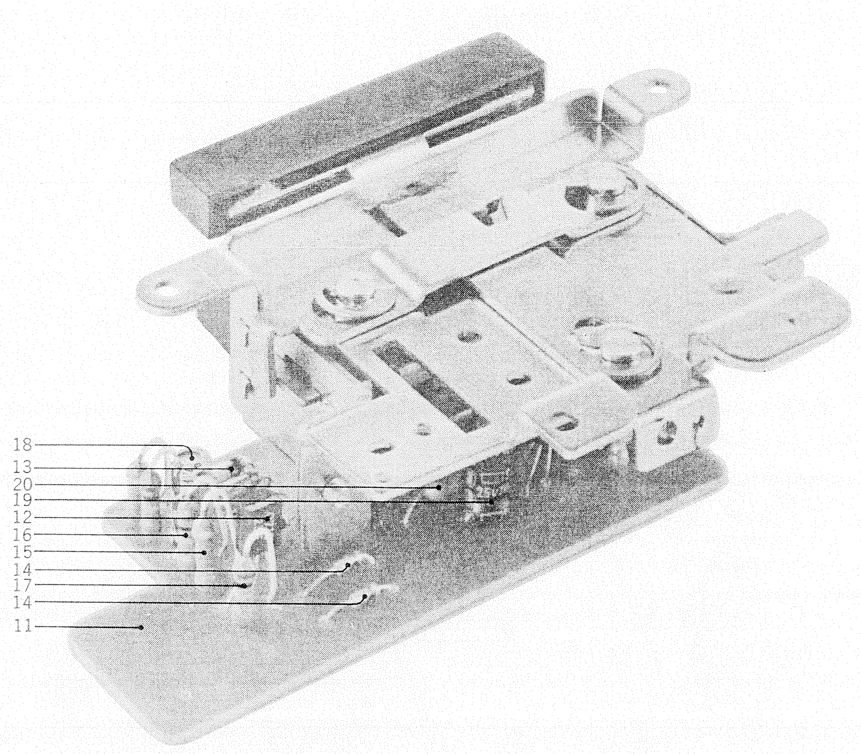
FIG. 3 b PHOTO OF FUNCTION SW. BLOCK

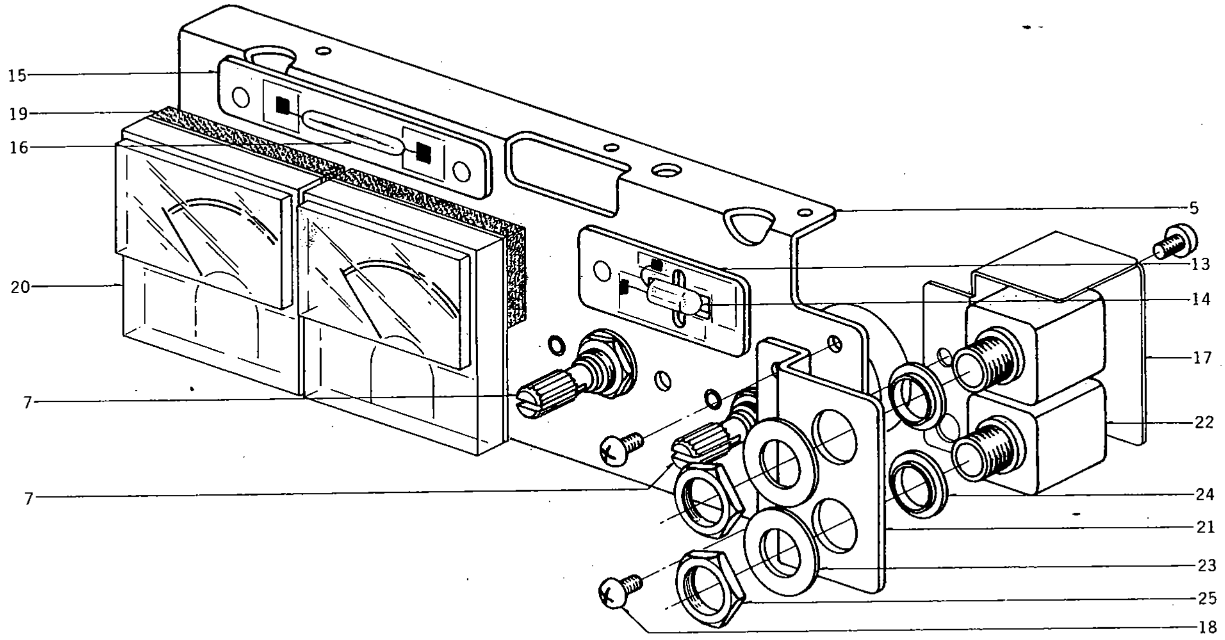


FUNCTION SW. BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		FUNCTION SW. BLOCK		
3-1x	BA556885	Function SW. Block Comp.	EG	1
3-2	WM371057	Push Button SW. Base A, w/pin	ED-213	1
3-3	WM371081	Stop Lever A	ED-216	1
3-4	ZW290283	'U' Ring 2.85M	6-1-1	3
3-5	WM371092	Stop Lever B	ED-217	1
3-6	ZG219385	Keyboard Lever E Spring	BT-226	1
3-7	SB371610	Stop Button	ED-613	1
3-8	SB371586	Push Button A (Play)	ED-614	1
3-9	SB371597	Push Button B (Rec.)	ED-614	1
3-10	SB371608	Push Button C (F.Fwd)	ED-614	1
3-11	EA543802	Function SW. P.C. Board	EG-2001	1
3-12	ET453486	Transistor 2SC711(E) (F)	45-1-67	2
3-13	ED219464	Germanium Diode 1N34A	45-3-1	2
3-14	ED514721	Silicon Diode WG-599	45-3-17	6
3-15	ER212883	Carbon/R. RD1/4 4.7k(J) (Stop. Type)	35-10-1	3
3-16	ER336442	Carbon/R. RD1/4 10k(J) (Stop. Type)	35-10-1	2
3-17	ER211757	Carbon/R. RD1/4 100k(J) (Stop. Type)	35-10-1	1
3-18	EC450281	Elect./C. 0.47μF 50WV (Vert. Type)	24-12-9	2
3-19	EC220994	Elect./C. 10μF 25WV (Vert. Type)	24-12-9	1
3-20	ER345712	Carbon/R. RD1/4 22k(J) (Insu. Type)	35-9-5	2
3-21	ES557122	Push Button SW. 3-axial AC125V 0.3A	25-5-107	1
3-22	ZS323728	Screw, binding head 3x5		2

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		ASSEMBLY BLOCK		
3-23	WM583086	Protect Angle	EG-5067	1
3-24	ZS447772	Tapping Screw #2 3x6 (BR)		6
3-25	WM543521	Rec. Lever C	EG-5006	1
3-26	WM543510	Rec. Lever D	EG-5005	1
3-27	ZW290283	'U' Ring 2.85M	6-1-1	3
3-28	ZW259931	Washer (PBP) D5.1x10.3x0.3t		1
3-29	ZS323728	Screw, binding head 3x5		1
3-30	ZG370934	SW. Spring		1
3-31	WM543543	FF Slide	ED-124	1
3-32	WM583097	FF SW. Spring	EG-5008	1
3-33	ZS425981	Screw, binding head 3x3	EG-5068	2

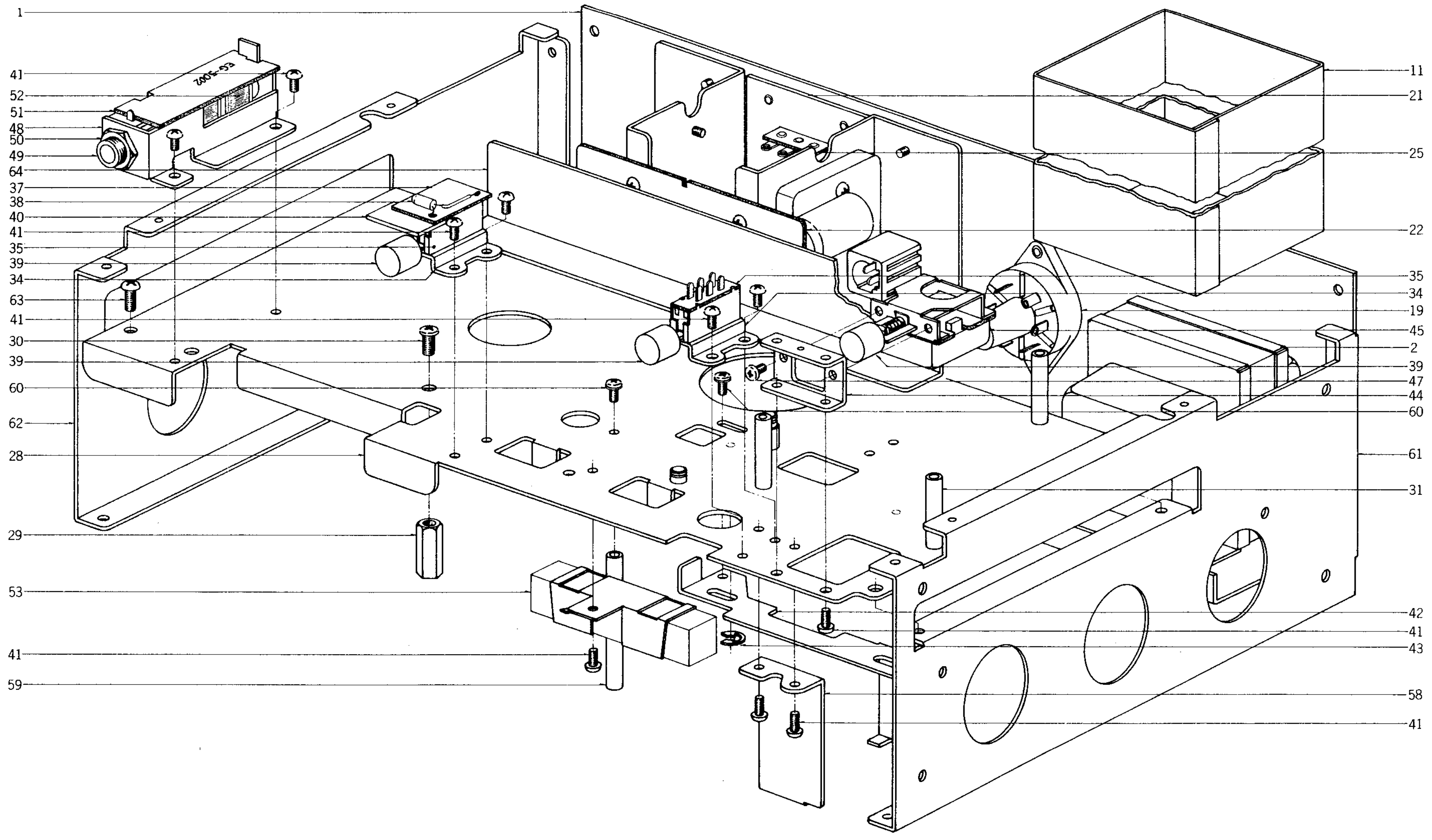
FIG. 4 ILLUSTRATION OF VOLUME CHASSIS BLOCK



VOLUME CHASSIS BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
4-1x	BZ556942	Vol. Chassis Block Comp.	EG	1
4-2x	BZ562645	Vol. Chassis Block Comp. (WG)	EG	1
4-3x	BZ556953	Vol. Chassis Block Comp. (Deck)	EG	1
4-4x	BZ562656	Vol. Chassis Block Comp. (D-WG)	EG	1
4-5	WM543475	Vol. Chassis C	EG-5011	1
4-6x	WM543464	Vol. Chassis D (Deck)	EG-5011	1
4-7	EV557076	Double/Vol. DJ10E 100 kB 50 kA	36-3-51	2
4-8x	EV445590	Vol. V24N 50 kA (Deck)	36-2-23	2
4-9x	EA543745	Tone P.C. Board	EG-5013	2
4-10x	ER212264	Carbon/R. RD1/4 22k(J) (Stop. Type)	35-10-1	2
4-11x	EC250716	Mylar/C. 0.0022μF(K) 50WV (Vert. Type)		2
4-12x	EC362158	Mylar/C. 0.0047μF(K) 50WV (Vert. Type)		2
4-13	EZ255317	Lamp Holder	LD-533	1
4-14	EL390576	Pilot Lamp. (L/T) RM6-24V-50mA	28-2-6	1
4-15	EA449414	Lamp P.C. Board	BS-5005	1
4-16	EL295312	Lamp (No. 2) 8V 0.2A	28-2-8	1
4-17	WM547424	Mic. Jack Shield	EG-5043	1
4-18	ZS447772	Tapping Screw #2 3x6 (BR)		3
4-19	WM469877	Meter Cushion	ED-C502	1
4-20	EM453688	VU Meter B-0391R	46-1-51	2
4-21	WM543363	Jack Mt. Plate	EG-5025	1
4-22	EJ315281	Mic. Jack 2PMJ1	31-2-19	2
4-23	ZW437084	Washer (Fiber) D9.1x15.4x0.5t		2
4-24	EZ469721	Nylon Collar B, Jack	2-4-27	2
4-25	ZW270191	E Jack Nut		2
4-26x	WM549044	Insulator Plate (Deck)	EG-5061	1

FIG. 5 ILLUSTRATION OF POWER SUPPLY/ASSEMBLY BLOCK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POWER SUPPLY/ASSEMBLY BLOCK

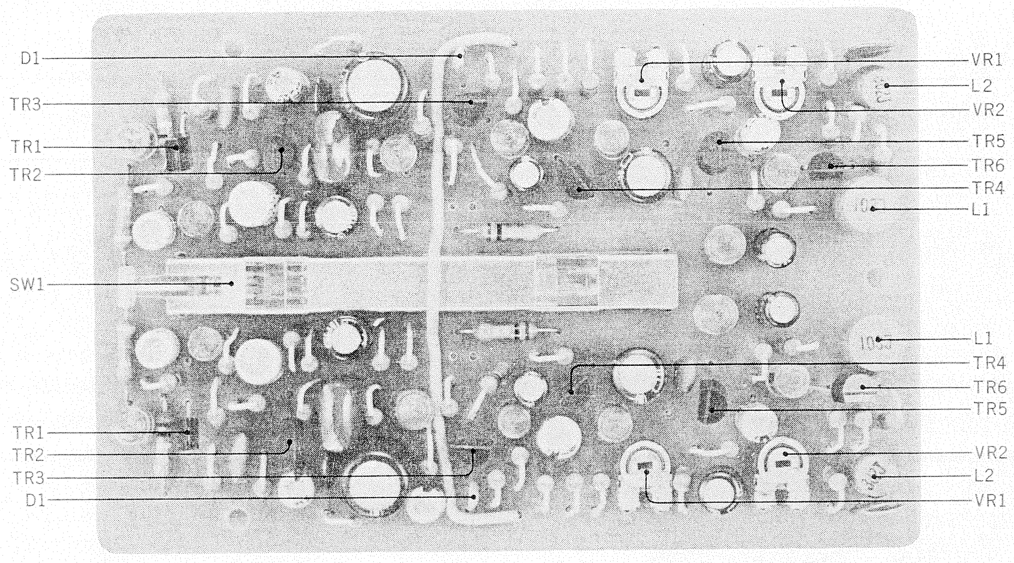
POWER SUPPLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
5-1x	WM543690	Power Supply Frame	EG-5034	1
5-2	BT558911	Power Trans. EGT-4	38-4-249	1
5-3x	BT561464	Power Trans. EGT-1 (UL)	38-4-250	1
5-4x	BT558922	Power Trans. EGT-3 (Deck)	38-4-247	1
5-5x	BT561475	Power Trans. EGT-2 (D-UL)	38-4-251	1
5-6x	ZS200700	Tapping Screw #2 4x8(Round)		5
5-7x	ZS447772	Tapping Screw #2 3x6 (BR)		4
5-8x	ZS447761	Tapping Screw #2 3x6 (BR) (Black)		6
5-9x	EZ486617	Trans. Reinforcement Plate B (Deck)	LF-5222	2
5-10x	ZS447840	Tapping Screw #2 3x8 (BR)		2
5-11	WM414415	Trans. Shield	CC-5008	1
5-12x	WM569687	Shield Support (Deck)	EG-5063	2
5-13x	EW540112	AC Cord (CUL) 2.5M	26-3-19	1
5-14x	EW486797	Power Supply Cord (WG)	26-3-26	1
5-15x	EW315448	Australia Cord (3 core)	26-3-11	1
5-16x	EW524845	AC Cord (J) 2.5M	26-3-31	1
5-17x	EZ382263	Strain Relief SR-4K-4	2-7-12	1
5-18x	EZ246936	Strain Relief SR-6W-1 (WG, 3 core)	2-7-8	1
5-19	EJ233370	Socket (Volt. Selector) S-18010	40-2-3	1
5-20x	ZS372025	ISO Screw, truss head 3x6 (Black)		2
5-21	BZ557010	Jack Plate Block Comp. GXR-82/D		1
5-22	BA557008	Main Amp. P.C. Board Comp. GXR-82		1
5-23x	EF277402	Fuse ST-2 1A	39-1-26	1
5-24x	ZW273881	Earth Lug M4		1
5-25	EJ254970	Lug Plate KP1L1	33-3-3	1
5-26x	EJ460653	Fuse ST-1 1A	39-1-25	1
5-27x	ER392051	Cement/R. H30A 450Ω(K) (UL)	35-16-17	1

ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
5-28	WM543442	Frame, w/prop	EG-5035	1
5-29	WM465355	Cart. Prop	ED-B125	3
5-30	ZS413201	Screw, pan head 4x8		3
5-31	MH364691	Sys. Con. P.C. Board Prop	MR-264	3
5-32x	ZS323728	Screw, binding head 3x5		5
5-33x	ZS384131	Screw, round head 3x5		1
5-34	WM370890	UEG SW. Table	ED-120	2
5-35	ES374051	Push SW. UEG-22CP	25-5-26	2
5-36x	ZS371867	Screw, binding head 2.6x4		2
5-37	EA543756	Pause P.C. Board	EG-5027	1
5-38	EL390576	Pilot Lamp (L/T) RM6-24V-50mA	28-2-6	1
5-39	SK371621	PTA Knob (Black)	ED-615	3
5-40	WM439022	Pause Lamp Cover	EG-5060	1
5-41	ZS447772	Tapping Screw #2 3x6 (BR)		20
5-42	WM543565	Cycle Change Lever	EG-5010	1
5-43	ZW290283	'U' Ring 2.85M	6-1-1	2
5-44	WM543554	Power SW. Table	EG-5009	1
5-45	ES469541	Push SW. TV-3 JB52	25-5-60	1
5-46x	ES499972	Push SW. JS-09 (WG)	25-5-67	1
5-47	ZS371856	ISO Screw, binding head 3x5		2
5-48	WM543486	Headphone Holder	EG-5001	1
5-49	EJ391083	Mic. Jack 3PMJ1P	31-2-28	1
5-50	ZW270191	E Jack Nut		1
5-51	EA543778	Headphone P.C. Board	EG-5002	1
5-52	BT557144	Headphone Trans. S16-508	38-2-36	2
5-53	ER563951	Cement/R. H20A (430+20)ΩK	35-16-52	1
5-54x	WM583064	Resistor Mt. Angle (UL)	EG-5065	1
5-55x	EA583053	Resistor P.C. Board (UL)	EG-5066	1
5-56x	ER554905	Cement/R. 5W 12Ω(K) (Wire-wound Type) (UL)	35-16-3	1
5-57x	ER563951	Cement/R. H20A(430+20)ΩK (D-UL)	35-16-52	1
5-58	WM543341	P.C. Board Support	EG-5023	1
5-59	MH543385	P.C. Board Prop	EG-5028	1
5-60	ZS413728	Screw, binding head 3x6, w/washer		1
5-61	WM370743	Side Frame A (Right)	ED-106	1
5-62	WM370754	Side Frame B (Left)	ED-106	1
5-63	ZS200700	Tapping Screw #2 4x8 (Round)		4
5-64	WM547740	Warp Prevention Plate	EG-5058	1
5-65x	MZ229138	Wire Bundle Holder N-108	2-35-1	1

FIG. 6 PHOTO OF PRE-AMP. P.C. BOARD (EG-5022) BLOCK

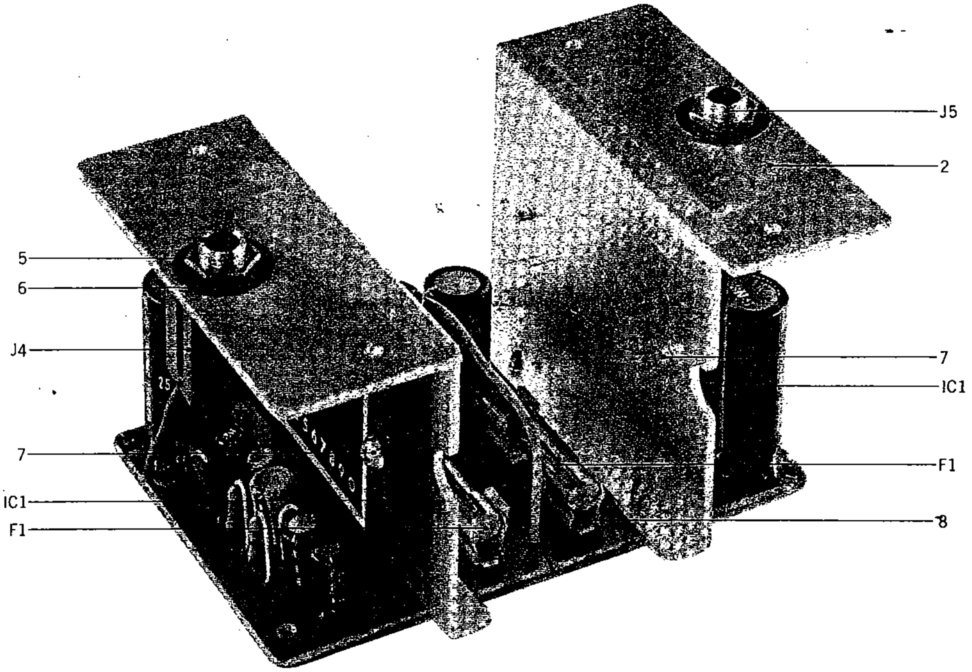


PRE-AMP. P.C. BOARD (EG-5022) BLOCK

Symbol No.	Parts No.	Description	Q'ty
6-1x	BA556896	Pre-amp. P.C. Board Comp. (EG-5022)	1
6-2x	BA556907	Pre-amp. P.C. Board Comp. (EG-5022) (Deck)	1
6-TR1	ET391768	Transistor 2SC458LG(C) (D)	2
6-TR2	ET550754	Transistor 2SC1312(G)	2
6-TR3	ET398777	Transistor 2SC711(G) (F)	2
6-TR4	ET550754	Transistor 2SC1312(G)	2
6-TR5, 6	ET398777	Transistor 2SC711(G) (F)	4
6-D1	ED514721	Silicon Diode WG-599	2
6-SW1	ES371924	Slide SW. CLB2102-B4	1
6-VR1	EV522797	Semi-fixed/Vol. V8K4-1 20 kB	2
6-VR2	EV464196	Semi-fixed/Vol. V8K4-1 2 kB	2
6-L1	EO244001	Ferri Inductor FL9H 10MH(J)	2
6-L2	EO308395	Ferri Inductor FL7H 3MH(J)	2
		Capacitor, Vertical Type	
6-C1	EC432810	Elect. 10μF 16WV NL	2
6-C2	EC516767	Styrol 470PF(K) 50WV	2
6-C3	EC562678	Styrol 750PF(J) 50WV	2
6-C4	EC476976	Elect. 33μF 10WV NL	2
6-C5	EC290531	VFM 100PF(K) 50WV	2
6-C6	EC450527	Elect. 4.7μF 25WV	2
6-C7	EC220590	Elect. 33μF 10WV	2
6-C8	EC311793	Mylar 0.012μF(J) 50WV	2
6-C9	EC302253	Mylar 0.15μF(K) 50WV	2
6-C10	EC220151	Elect. 100μF 25WV	2
6-C11	EC434070	Styrol 680PF(J) 50WV	2
6-C12	EC313108	Elect. 1μF 50WV	1
6-C13	EC516712	Styrol 220PF(K) 50WV	2
6-C14	EC320051	Elect. 10μF 16WV	2
6-C15	EC329771	Elect. 47μF 6.3WV	2
6-C16	EC368335	Mylar 0.022 F(J) 50WV	2
6-C17	EC220612	Elect. 33μF 25WV	2
6-C18	EC402388	VFM 39PF(J) 50WV	2
6-C19	EC435690	Styrol 560PF(J) 50WV	2
6-C20	EC307664	Elect. 33μF 6.3WV	2
6-C21	EC320051	Elect. 10μF 16WV	2
6-C22	EC450055	Elect. 1μF 25WV	2
6-C23	EC516712	Styrol 220PF(K) 50WV	2
6-C24	EC516723	Styrol 270PF(K) 50WV	2

Symbol No.	Parts No.	Description	Q'ty
		Resistor, Stopper Type	
6-R1	ER214290	Carbon RD1/4 4.7k(J) (Insu. Type)	2
6-R2	ER213715	Carbon RD1/4 100k(J) (Insu. Type)	2
6-R3	ER211757	Carbon RD1/4 100k(J)	2
6-R4	ER399060	Carbon RD1/4 9.1k(J)	2
6-R5	ER465276	Carbon RD1/4 270k(J) NL	2
6-R6	ER336442	Carbon RD1/4 10k(J)	2
6-R7	ER212264	Carbon RD1/4 22k(J)	2
6-R8	ER211757	Carbon RD1/4 100k(J)	2
6-R9	ER347073	Carbon RD1/4 200(J)	2
6-R10	ER350100	Carbon RD1/4 68k(J)	2
6-R11	ER212883	Carbon RD1/4 4.7k(J)	2
6-R12	ER336442	Carbon RD1/4 10k(J)	2
6-R13	ER213030	Carbon RD1/4 5.6k(J)	2
6-R14	ER212264	Carbon RD1/4 22k(J)	2
6-R15	ER211757	Carbon RD1/4 100k(J)	2
6-R16	ER429996	Carbon RD1/4 470k(J)	2
6-R17	ER212264	Carbon RD1/4 22k(J)	2
6-R17	ER430121	Carbon RD1/4 (J) (Deck)	2
6-R18	ER212883	Carbon RD1/4 4.8k(J)	2
6-R19	ER306887	Carbon RD1/4 15k(J)	2
6-R20	ER212883	Carbon RD1/4 4.7k(J)	2
6-R21	ER212016	Carbon RD1/4 150(J)	2
6-R22	ER357491	Carbon RD1/4 82k(J)	2
6-R23	ER211757	Carbon RD1/4 100k(J)	2
6-R24	ER362441	Carbon RD1/4 1.8k(J)	2
6-R25	ER213300	Carbon RD1/4 680(J)	2
6-R26	ER212264	Carbon RD1/4 22k(J)	2
6-R27	ER357570	Carbon RD1/4 150k(J)	2
6-R28	ER306887	Carbon RD1/4 15k(J)	2
6-R29	ER430018	Carbon RD1/4 1(J)	2
6-R30	ER336442	Carbon RD1/4 10k(J)	2
6-R31	ER211465	Carbon RD1/4 1k(J)	2
6-R32	ER430053	Carbon RD1/4 22(J)	2
6-R33	ER211465	Carbon RD1/4 1k(J)	2

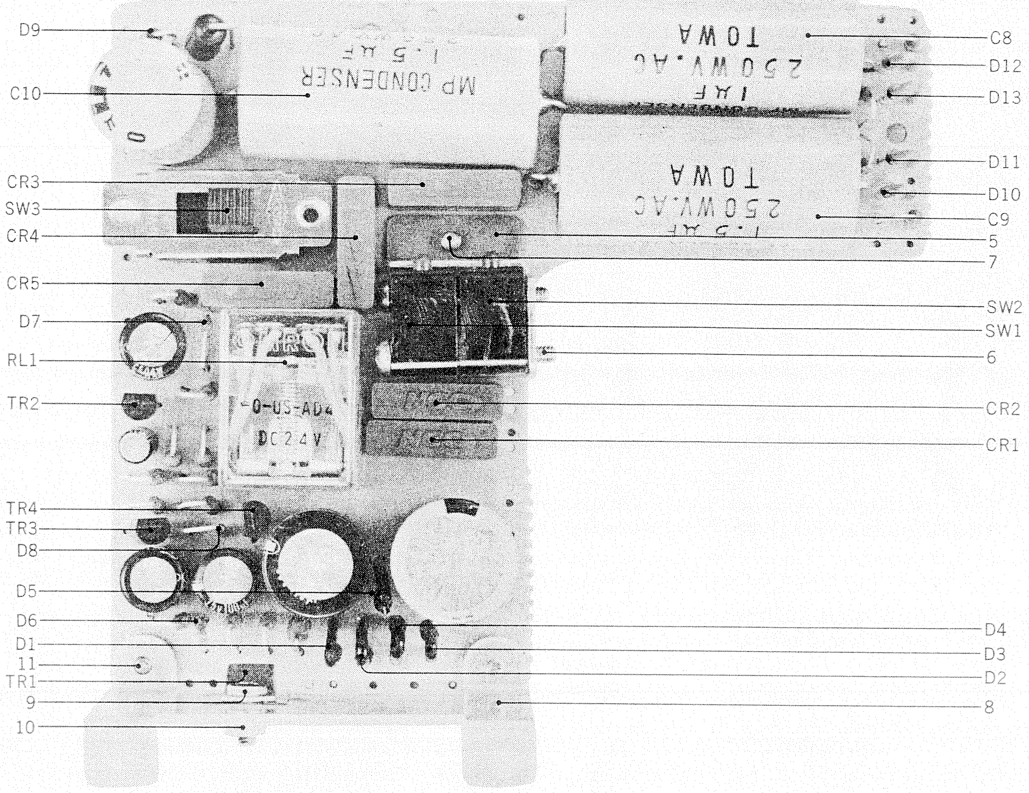
FIG. 7 PHOTO OF MAIN AMP. (EG-5020) BLOCK



MAIN AMP.(EG-5020) BLOCK

Symbol No.	Parts No.	Description	Q'ty
7-1x	BA557008	Main Amp. P.C. Board Comp. (EG-5020)	1
7-IC1	EI372126	I.C. STK-011(A)	2
7-J4, 5	EJ315281	Mic. Jack 2PMJ1	2
7-2	WM543330	Heat-sink	2
7-3x	ZW272722	Toothed Lock Washer M9 D9.3x13x0.5t	2
7-4x	ZW224976	Jack Thin Washer	2
7-5	ZW654624	E Jack Nut	2
7-6	ZW446984	Washer (Polyslider) D9x22x0.25t	2
7-7	ZS447805	Tapping Screw #2 3x12(BR)	4
7-8	EJ514822	Fuse Holder, P.C. Board S-N5051	4
7-9	EF435036	Fuse ST-4 0.9A	2
		Capacitor, Vertical Type	
7-C1	EC350684	Elect. 22μF 25WV	2
7-C2	EC220994	Elect. 10μF 25WV	2
7-C3	EC372148	Elect. 220μF 25WV	2
7-C4	EC320040	Elect. 47μF 16WV	2
7-C5	EC450281	Elect. 0.47μF 50WV	2
7-C6	EC450270	Elect. 1,000μF 25WV	2
7-C7	EC350684	Elect. 22μF 25WV	2
7-C8	EC460888	Elect. 10μF 35WV	2
7-C9	EC290507	VFM 150PF(K) 50WV	2
7-C10	EC308711	Mylar 0.047 F(K) 50WV	2
		Resistor, Stopper Type	
7-R1	ER336442	Carbon RD1/4 10k(J)	2
7-R2	ER361642	Carbon RD1/4 47(J)	2
7-R3	ER346544	Carbon RD1/4 3k(J)	2
7-R4	ER399723	Carbon RD1/4 4.7(J)	2

FIG. 8 PHOTO OF POWER/SYS. CON. P.C. BOARD (EG-5014) BLOCK

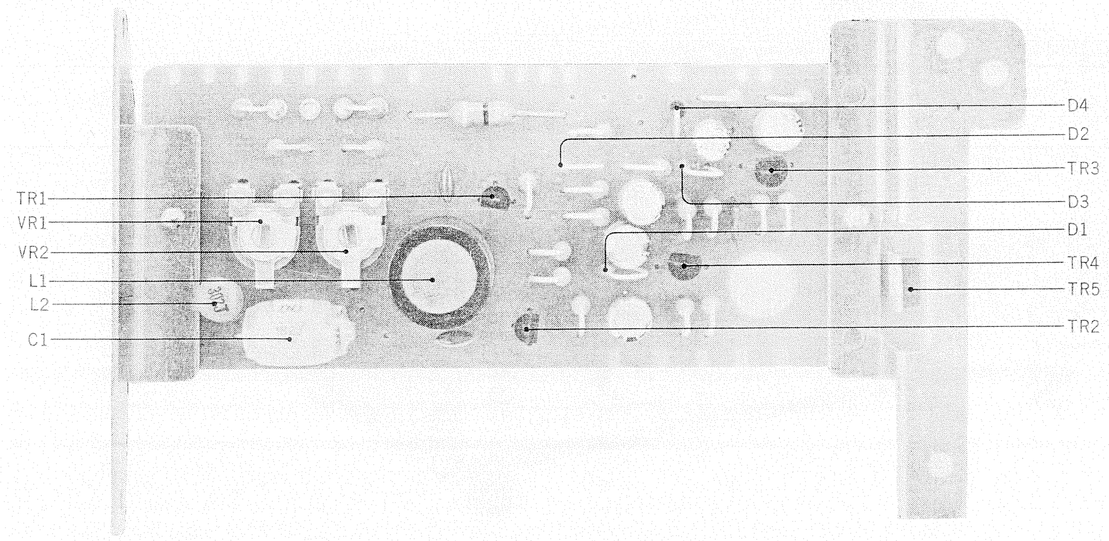


POWER/SYS. CON. P.C. BOARD (EG-5014) BLOCK

Symbol No.	Parts No.	Description	Q'ty
8-1x	BA556964	Power, Sys. Con. P.C. Board Comp. (EG-5014)	1
8-2x	BA556975	Power, Sys. Con. P.C. Board Comp. (EG-5014) (Deck)	1
8-3x	BA558821	Power, Sys. Con. P.C. Board Comp. (EG-5014) (UL)	1
8-4x	BA558832	Power, Sys. Con. P.C. Board Comp. (EG-5014) (D-UL)	1
8-TR1	ET517375	Transistor 2SD360(D) (E)	1
8-TR2to4	ET520841	Transistor 2SC711(E)(F)(G)	3
8-D1to4	ED494583	Silicon Diode 10D05	4
8-D5	ED494583	Silicon Diode 10D05 (Deck)	1
8-D6	ED557111	Zener Diode WZ-210	1
8-D7, 8	ED516420	Silicon Diode WG-599	2
8-D9	ED224550	Silicon Diode 10D4	1
8-D10to13	ED219464	Germanium Diode 1N34A	4
8-SW1, 2	ES250086	Micro SW. VV-15-1A U/L	2
8-SW3	ES479485	Slide SW. S-1	1
8-CR1to5	ER376413	Spark Quencher U/L 0.033µ+120Ω 500WV	5
8-RL1	EP344136	Relay MY4-O-US-AD4 24V	1
8-FR1	ER574841	Fuse/R. FRN1/2 4.7ΩK 250mA	1
8-5	WM543576	Micro SW. Plate	1
8-6	ZS393388	Screw, round head 3x25	2
8-7	ZS417137	Screw, binding head 3x4	2
8-8	EZ543587	Heat-sink Plate	1
8-9	ZS413741	Screw, binding head 3x8	1
8-10	ZW273756	Nut M3	1
8-11	ZS413728	Screw, binding head 3x6, w/washer	2
8-12x	EJ514822	Fuse Holder, P.C. Board S-N5051	2
8-13x	EF277402	Fuse ST-2 1A	1

Symbol No.	Parts No.	Description	Q'ty
		Capacitor, Vertical Type	
8-C1, 2	EC303592	Elect. 1,000µF 35WV	2
8-C2	EC444082	Elect. 470µF 35WV (Deck)	1
8-C3, 4	EC220151	Elect. 100µF 25WV	2
8-C5	EC320051	Elect. 10µF 16WV	1
8-C6	EC329782	Elect. 220µF 10WV	1
8-C7	EC562577	Elect. 47µF 160WV	1
8-C8	EC557087	MP 1µF(K) 250WV (Tub. Type)	1
8-C9, 10	EC557098	MP 1.5µF(K) 250WV (Tub. Type)	2
		Resistor, Stopper Type	
8-R1	ER215234	Carbon RD1/2 4.7(K)	2
8-R2	ER305627	Carbon RD1/4 1k(J)	1
8-R3	ER361642	Carbon RD1/4 47(J)	1
8-R4to7	ER304345	Carbon RD1/4 4.7k(J)	4
8-R9,10	ER213300	Carbon RD1/4 680(J)	2
8-R11	ER407463	Carbon RD1/4 22(J)	1
8-R12	ER562634	Wire-wound 1/2 2.2(K) (P Type)	1
8-R13to16	ER352067	Carbon RD1/4 3.9k(J)	4
8-R17, 18	ER211465	Carbon RD1/4 1k(J)	2

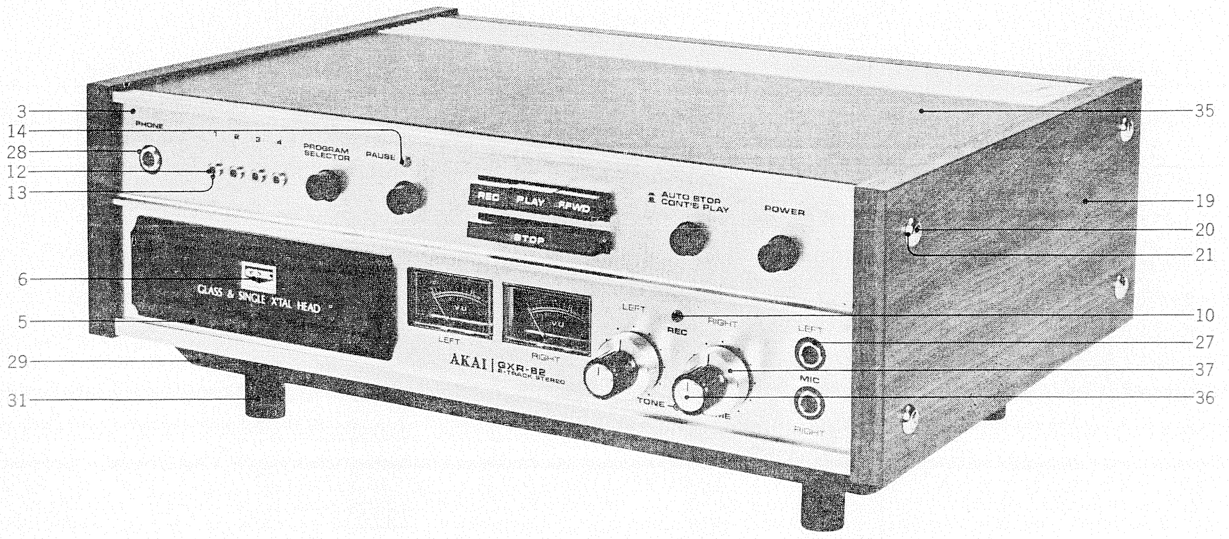
FIG. 9 PHOTO OF OSC. P.C. BOARD (EG-3013) BLOCK



OSC. P.C. BOARD (EG-3013) BLOCK

Symbol No.	Parts No.	Description	Q'ty
9-1x	BA556931	Osc. P.C. Board Comp. (EG-3013)	1
9-TR1, 2	ET511694	Transistor 2SC1211(D) (E)	2
9-TR3, 4	ET517994	Transistor 2SC945(P) (Q) (R) (K)	2
9-TR5	ET517375	Transistor 2SD360(D) (E)	1
9-D1,2,3	ED514721	Silicon Diode WG-599	3
9-D4	ED511097	Silicon Diode 1N4001	1
9-L1	EO453521	Osc. Coil OT-803	1
9-L2	EO308395	Ferri Inductor FL7H 3MH(J)	1
9-VR1,2	EV499882	Semi-fixed/Vol. V10K8-4-2 300 kB	2
		Capacitor, Vertical Type	
9-C1	EC343372	Plastic Film 1,800PF(J) 500WV	1
9-C2,3	EC302321	Mylar 0.01μF(J) 50WV	2
9-C4	EC220994	Elect. 10μF 25WV	1
9-C5	EC329771	Elect. 47μF 6.3WV	1
9-C6	EC450281	Elect. 0.47μF 50WV	1
9-C7, 8	EC331738	Elect. 4.7μF 50WV	2
9-C9	EC420423	Mylar 0.01μF(M) 50WV	1
		Resistor, Stopper Type	
9-R1, 2	ER211757	Carbon RD1/4 100k(J)	2
9-R3	ER304345	Carbon RD1/4 4.7k(J)	1
9-R4, 5	ER336406	Carbon RD1/4 3.3(J)	2
9-R6	ER304378	Carbon RD1/4 470(J)	1
9-R7	ER552780	Carbon RD1/2 47(J)	1
9-R8	ER350122	Carbon RD1/4 68k(J)	1
9-R9	ER212264	Carbon RD1/4 22k(J)	1
9-R10	ER304345	Carbon RD1/4 4.7k(J)	1
9-R11	ER349740	Carbon RD1/4 10k(J)	1
9-R12	ER305627	Carbon RD1/4 1k(J)	1
9-R13	ER211465	Carbon RD1/4 1k(J)	1
9-R14	ER357557	Carbon RD1/4 39k(J)	1
9-R15,16	ER349740	Carbon RD1/4 10k(J)	2
9-R17	ER306944	Carbon RD1/4 22k(J)	1
9-R18	ER305627	Carbon RD1/4 1k(J)	1
9-R19	ER306887	Carbon RD1/4 15k(J)	1
9-R20	ER211757	Carbon RD1/4 100k(J)	2

FIG. 10 PHOTO OF FINAL ASSEMBLY BLOCK



FINAL ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		FRONT PANEL BLOCK		
10-1x	BZ557021	Front Panel Block Comp.	EG	1
10-2x	BZ557032	Front Panel Block comp. (Deck)	EG	1
10-3	SP543431	Front Panel C	EG-6001	1
10-4x	SP543870	Front Panel D (Deck)	EG-6001	1
10-5	WM371531	Cart. Escutcheon	ED-606	1
10-6	WM544713	Cart. Plate GX	ED-607	1
10-7x	WM371553	Cart. Shaft	ED-608	1
10-8x	ZG371564	Cart. Spring	ED-609	1
10-9x	WM533564	Screw, Flange Head	ED-6006	4
10-10	SZ378426	Lamp Indication (Red)	AA-5612	1
10-11x	WM549033	Pause Lamp Cover B (5x25x10t)	EG-5062	1
10-12	WM549988	Lens Holder C	EG-6009	4
10-13	WM549990	Lamp Lens C (Blue)	EG-6008	4
10-14	WM549055	Lamp Indication B (Orange)	AA-5612	1
10-15x	UM494267	Lamp Cover (D14x26x12t)	CG-2206	1
10-16x	WM371575	Moltplane (10x300x3t)	ED-610	1
10-17x	UM433361	Lamp Mask (S10x25:30x45x10t)	ED-A620	1
10-18x	WM474355	Lamp Mask (6x65x12t)	ED-C604	1
		FINAL ASSEMBLY BLOCK		
10-19	WM370765	Side Plate	ED-107	2
10-20	ZS589836	Screw, oval countersunk head 3x18		8
10-21	ZW463285	Decorative Washer M3		8
10-22x	ZW259492	Washer (PBP) D3.1x8x0.3t		8
10-23x	SM543317	Back Name Plate A	EG-5017	1
10-24	SM545938	Back Name Plate C (UL)	EG-5017	1
10-25x	SM543328	Back Name Plate B (Deck)	EG-5017	1
10-26x	SM545940	Back Name Plate D (D-UL)	EG-5017	1
10-27	ZW526577	Collar B, Jack	MC-5006	2
10-28	EZ436217	Collar for Jack	MC-5006	1
10-29	SP583031	Lower Cover G	ED-618	1
10-30x	SP543453	Lower Cover F (Deck)	ED-618	1
10-31	SA371654	Foot, ED	ED-620	4
10-32x	ZW516431	Tapping Screw #2 4x10 binding		4
10-33x	ZS447772	Tapping Screw #2 3x6 (BR)		6
10-34x	ZS417137	Screw, binding head 3x4		3
10-35	BC458976	ED Upper Cover Comp.	ED-630	1
10-36	SK409511	Amp. Knob D Comp.	LF-6025	2
10-37	SK409476	Amp. Knob B Comp.	LF-6023	2
10-38x	SK543881	Amp. Knob Comp. (Deck)	ED-C606	2
10-39x	EF389575	Fuse ST-4 0.7A	39-1-28	1
10-40x	EF277402	Fuse ST-2 1A	39-1-26	1

INDEX

Parts No.	Ref. No. & Symbol No.
BA556885	3-1x
BA556896	6-1x
BA556907	6-2x
BA556931	1-75x
BA556931	9-1x
BA556964	8-1x
BA556975	8-2x
BA557008	5-22
BA557008	7-1x
BA558821	8-3x
BA558832	8-4x
BC458976	10-35
BF372464	2-19x
BH556918	1-1x
BM432257	2-1x
BT557144	5-52
BT558911	5-2
BT558922	5-4x
BT561464	5-3x
BT561475	5-5x
BZ556942	4-1x
BZ556953	4-3x
BZ557010	5-21
BZ557021	10-1x
BZ557032	10-2x
BZ562645	4-2x
BZ562656	4-4x
EA371272	1-27
BA449414	4-15
EA543745	4-9x
EA543756	5-37
EA543767	1-11
EA543778	5-51
EA543802	3-11
EA583053	5-55x
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EC220590	6-C7
EC220612	6-C17
EC220994	3-19
EC220994	7-C2
EC220994	9-C4
EC250716	4-11x
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EC290531	6-C5
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EC307664	6-C20
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EC313108	6-C12
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EC320051	6-C14
EC320051	6-C21
EC320051	8-C5
EC329771	6-C15
EC329771	9-C5
EC329782	8-C6
EC331738	9-C7, 8
EC343372	9-C1
EC350684	7-C1
EC350684	7-C7
EC362158	4-12x
EC368335	6-C16
EC372148	7-C3
EC402388	6-C18
EC420423	9-C9
EC432810	6-C1
EC434070	6-C11
EC435690	6-C19
EC444082	8-C2
EC450055	6-C22
EC450270	7-C6
EC450281	3-18
EC450281	7-C5
EC450281	9-C6
EC450527	6-C6
EC460888	7-C8
EC476976	6-C4
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EC516712	6-C23
EC516723	6-C24
EC516767	6-C2
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EC562577	8-C7
EC562678	6-C3
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ED224550	8-D9
ED494583	8-D1to4
ED494583	8-D5
ED511097	9-D4
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ED516420	8-D7,8
ED557111	8-D6
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EF277402	8-13x
EF277402	10-40x
EF389575	10-39x
EF435036	7-9
EF460653	5-26x
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EJ254970	5-25
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ER212264	6-R26
ER212264	9-R9
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ER212883	6-R18
ER212883	6-R20
ER213030	6-R13
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ER213300	8-R9, 10
ER213715	6-R2
ER214290	6-R1
ER215234	8-R1
ER304345	8-R4to7
ER304345	9-R3
ER304345	9-R10
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ER305627	9-R18
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ER336442	6-R12
ER336442	6-R30
ER336442	7-R1
ER345712	3-20
ER346544	7-R3
ER347073	6-R9
ER349740	9-R11
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ER350100	6-R10
ER350122	9-R8
ER352067	8-R13to16
ER357491	6-R22
ER357557	9-R14
ER357570	6-R27
ER361642	7-R2
ER361642	8-R3
ER362441	6-R24
ER376413	8-CR1to5
ER392051	5-27x
ER399060	6-R4
ER399723	7-R4
ER407463	8-R11
ER429996	6-R16
ER430018	6-R29
ER430053	6-R32
ER430121	6-R17
ER465276	6-R5
ER552780	9-R7
ER554905	5-56x
ER562634	8-R12
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ER563951	5-57x
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ES469541	5-45
ES479485	8-SW3
ES490735	1-14
ES499972	5-46x
ES557122	3-21
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ET398777	6-TR5, 6
ET453486	3-12
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ET517375	8-TR1
ET517375	9-TR5
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EV445590	4-8x
EV464196	6-VR2
EV499882	9-VR1,2
EV522797	6-VR1
EV557076	4-7
EW315448	5-15x
EW486797	5-14x
EW524845	5-16x
EW540112	5-13x
EZ246936	5-18x
EZ255317	4-13
EZ382263	5-17x
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EZ486617	5-9x
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HZ253620	1-65
HZ258456	1-54
HZ369786	1-41
HZ390960	1-49
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HZ461485	1-3
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HZ547727	1-35
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HZ566010	1-61
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MH303682	1-25
MH364691	5-31
MH543385	5-59
MI370945	2-21
MR371452	2-16
MS370956	2-20
MZ217620	2-6
MZ229138	5-65x
MZ237262	2-7
MZ244192	2-11
MZ253956	2-13
MZ296346	2-8
MZ300565	2-9
MZ300734	2-10
MZ370967	2-24
MZ370991	2-23
MZ371002	2-25
MZ371035	2-26
MZ373307	2-3
MZ395144	2-2
MZ395166	2-5
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MV368886	2-31
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SB371586	3-8
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SB371610	3-7
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SK409476	10-37
SK409511	10-36
SK543881	10-38x
SM543317	10-23x
SM543328	10-25x
SM545938	10-24x
SM545940	10-26x
SP543431	10-3
SP543453	10-30x
SP543870	10-4x
SP583031	10-29
SZ378426	10-10
UM433361	10-17x
UM494267	10-15x
WM370743	5-61
WM370754	5-62
WM370765	10-19
WM370890	5-34
WM371057	3-2
WM371081	3-3
WM371092	3-5
WM371531	10-5
WM371553	10-7x
WM371575	10-16x
WM414415	5-11
WM439022	5-40
WM459000	2-29
WM465355	5-29
WM466435	2-35
WM466727	2-32
WM469877	4-19
WM474353	10-18x
WM495674	2-38x
WM513674	2-33x
WM513685	2-34x
WM533564	10-9x
WM543330	7-2
WM543341	5-58
WM543363	4-21
WM543442	5-28
WM543464	4-6x
WM543475	4-5
WM543486	5-48
WM543510	3-26
WM543521	3-25
WM543543	3-31
WM543554	5-44
WM543565	5-42
WM543576	8-5
WM543690	5-1
WM544713	10-6
WM545477	1-21
WM545488	1-23
WM547424	4-17
WM547740	5-64
WM549033	10-11x
WM549044	4-26x
WM549055	10-14
WM549988	10-12
WM549990	10-13
WM569687	5-12x
WM583064	5-54x
WM583086	3-23
WM583097	3-32
WM598487	2-37
ZG219385	3-6
ZG226708	1-31
ZG244394	1-22
ZG256926	1-26
ZG303300	1-57
ZG303761	1-59
ZG309745	1-66
ZG309756	1-67
ZG370934	3-30
ZG371564	10-8x
ZG465142	1-8
ZS200417	1-68
ZS200676	1-17
ZS200700	5-6x
ZS200700	5-63
ZS201903	1-43
ZS201914	1-64
ZS201925	1-78
ZS202296	1-34x
ZS202307	1-36x
ZS202353	1-55
ZS220061	1-28
ZS256476	1-60
ZS323728	3-22
ZS323728	3-29
ZS323728	5-32x
ZS336857	1-39x
ZS336868	1-56
ZS356668	2-30
ZS371777	1-63x
ZS371856	5-47
ZS371867	5-36x
ZS372025	5-20x
ZS373577	2-22
ZS384131	5-33x
ZS393388	8-6
ZS413201	2-41
ZS413201	5-30
ZS413728	5-60
ZS413728	8-11
ZS413741	8-9
ZS417025	1-71

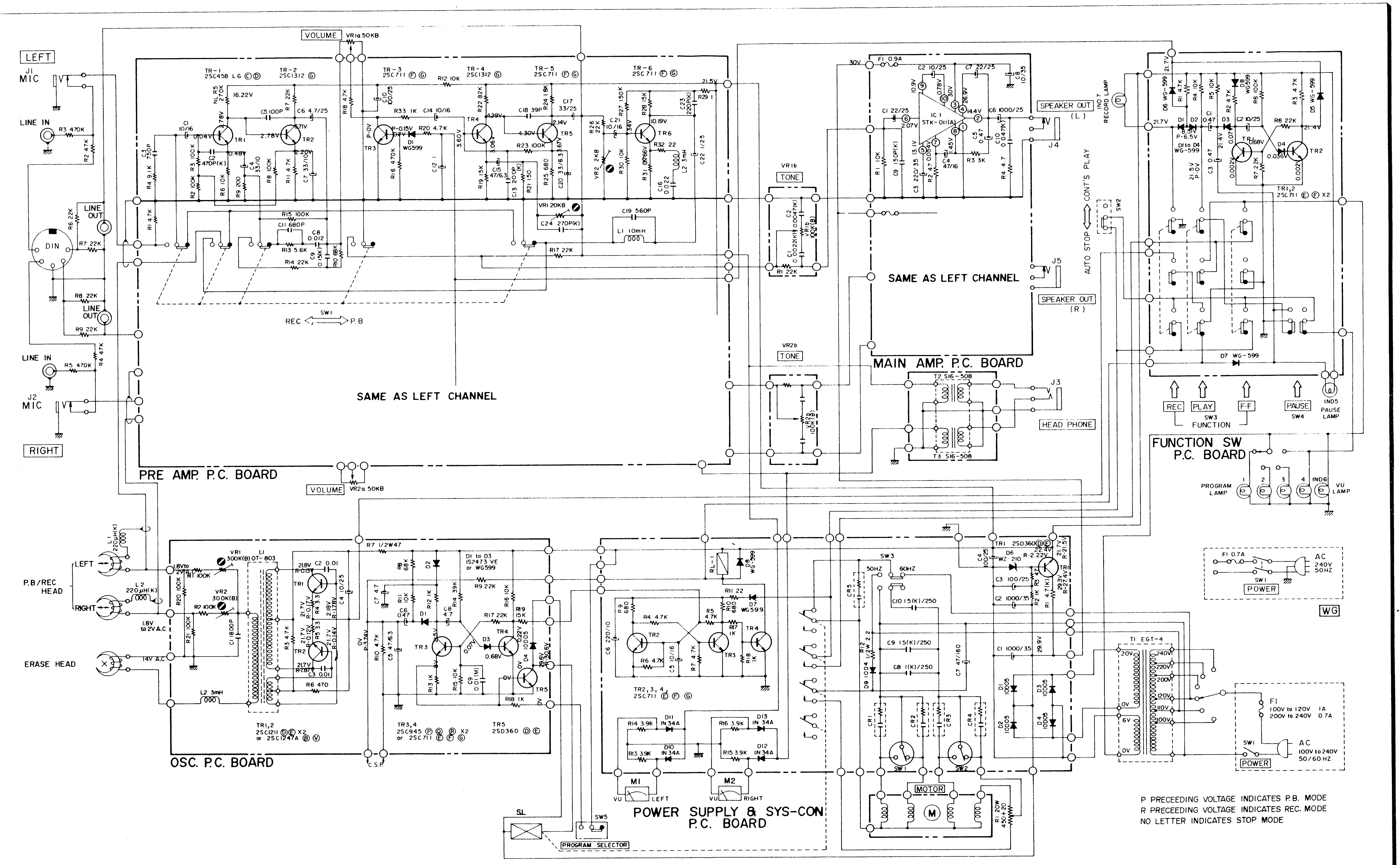
INDEX

Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.
ZS417137	8-7								
ZS417137	10-34x								
ZS418858	2-36x								
ZS425981	3-33								
ZS427037	2-14								
ZS433620	2-4								
ZS437883	1-58								
ZS447761	5-8x								
ZS447772	1-13								
ZS447772	2-39								
ZS447772	3-24								
ZS447772	4-18								
ZS447772	5-7x								
ZS447772	5-41								
ZS447772	10-33x								
ZS447805	7-7								
ZS447840	1-74								
ZS447840	5-10x								
ZS459033	2-17								
ZS465344	1-6								
ZS524812	1-15x								
ZS589836	10-20								
ZW224976	7-4x								
ZW259492	10-22x								
ZW259650	1-50								
ZW259738	1-46x								
ZW259738	1-48x								
ZW259931	3-28								
ZW260245	2-12								
ZW269785	1-37								
ZW270088	1-24								
ZW270134	2-28								
ZW270191	4-25								
ZW270191	5-50								
ZW272722	7-3x								
ZW273690	1-29x								
ZW273690	1-51								
ZW273756	1-9								
ZW273756	8-10								
ZW273881	5-24x								
ZW290283	3-4								
ZW290283	3-27								
ZW290283	5-43								
ZW369843	1-44								
ZW371913	2-27								
ZW400713	2-15								
ZW420682	1-47x								
ZW437084	4-23								
ZW446984	7-6								
ZW463285	10-21								
ZW465715	1-7								
ZW516431	10-32x								
ZW526577	10-27								
ZW554624	7-5								
ZW560171	1-20x								

SECTION 3

SCHEMATIC DIAGRAM

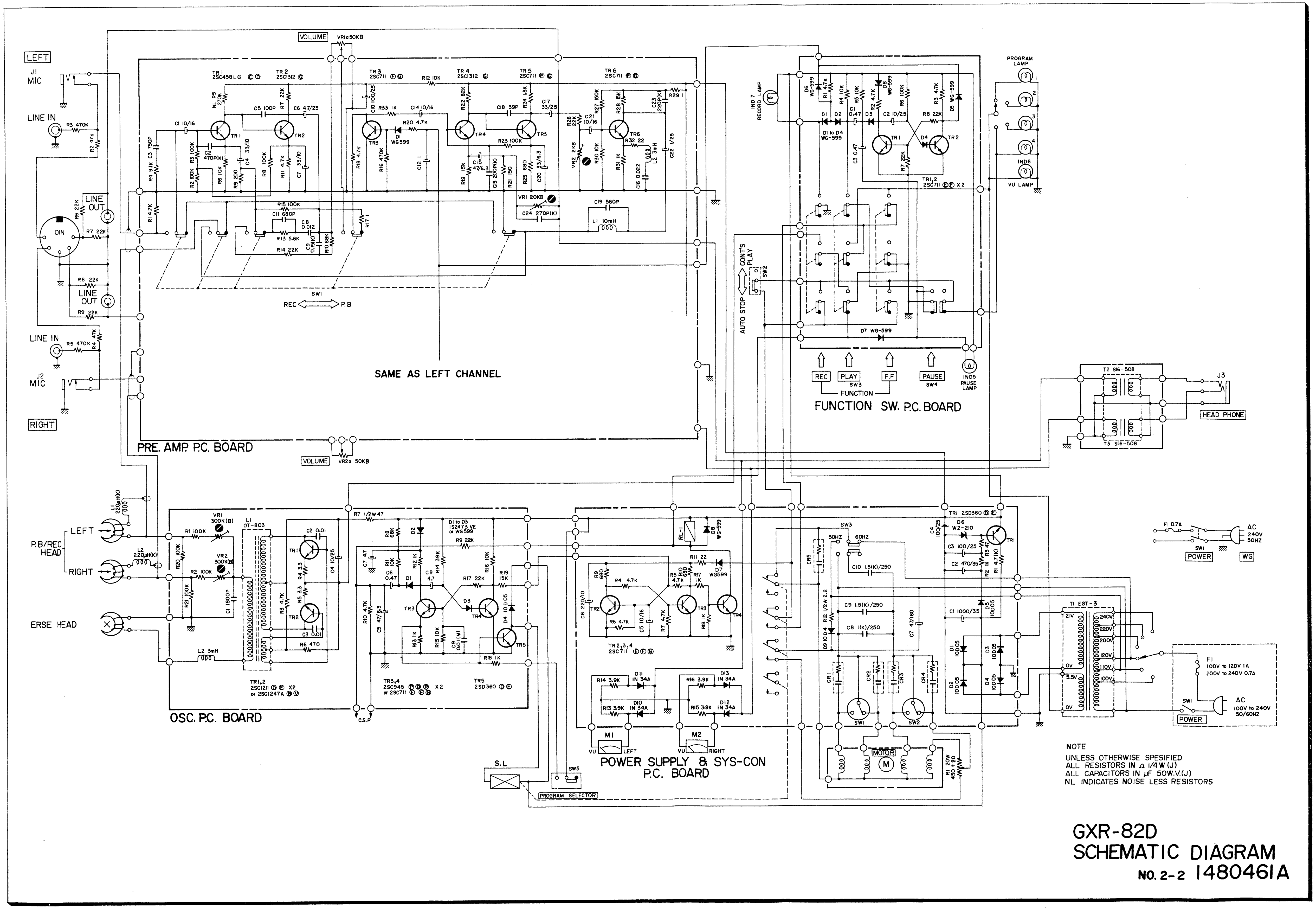
1. GXR-82 SCHEMATIC DIAGRAM
2. GXR-82D SCHEMATIC DIAGRAM


LEFT
J1 MIC
LINE IN
LINE OUT
DIN
LINE IN
J2 MIC
RIGHT
VOLUME VR1a 50KB
TR-1 2SC458 LG
TR-2 2SC1312
TR-3 2SC711
TR-4 2SC1312
TR-5 2SC711
TR-6 2SC711
REC SW1 P.B
SAME AS LEFT CHANNEL
PRE AMP. P.C. BOARD
VOLUME VR2a 50KB
VR1b TONE
VR2b TONE
IC1 STK-011(A)
F1 0.9A
SPEAKER OUT (L)
J4
SAME AS LEFT CHANNEL
J5
SPEAKER OUT (R)
MAIN AMP. P.C. BOARD
T2 516-508
T3 516-508
J3
HEAD PHONE
AUTO STOP
CONT'S PLAY
SW2
IND7 RECORD LAMP
TR1,2 2SC711 X2
D7 WG-599
REC
PLAY
F·F
SW3 FUNCTION
PAUSE SW4
IND5 PAUSE LAMP
FUNCTION SW P.C. BOARD
PROGRAM LAMP
IND6 VU LAMP
P.B/REC HEAD
LEFT
RIGHT
ERASE HEAD
L1 OT-803
TR1,2 2SC1211 X2 or 2SC1247A
TR3,4 2SC945 X2 or 2SC711
TR5 2SD360
D1 to D3 1S2473 VE or WG599
OSC. P.C. BOARD
C.S.P
SL
SW5
PROGRAM SELECTOR
RL-1
TR2,3,4 2SC711
M1 VU LEFT
M2 VU RIGHT
POWER SUPPLY & SYS-CON P.C. BOARD
SW3 50HZ 60HZ
TR1 2SD360
MOTOR
SW1
SW2
T1 EGT-4
F1 0.7A
SW1 POWER
AC 240V 50HZ
WG
F1 100V to 120V 1A 200V to 240V 0.7A
SW1 POWER
AC 100V to 240V 50/60HZ

P PRECEEDING VOLTAGE INDICATES P.B. MODE
R PRECEEDING VOLTAGE INDICATES REC. MODE
NO LETTER INDICATES STOP MODE

NOTE
UNLESS OTHERWISE SPESIFIED
ALL RESISTORS IN Ω 1/4W (J)
ALL CAPACITORS IN μF 50W.V.(J)
NL INDICATES NOISE LESS RESISTORS

GXR-82
SCHEMATIC DIAGRAM
NO.2-1 1480460A
2C


LEFT
J1 MIC
LINE IN
LINE OUT
DIN
LINE OUT
LINE IN
J2 MIC
RIGHT
VOLUME
VR1a 50KB
VR2a 50KB
VOLUME
SW1
REC
P.B
SAME AS LEFT CHANNEL
PRE. AMP. P.C. BOARD
TR1 2SC458LG
TR2 2SC1312
TR3 2SC711
TR4 2SC1312
TR5 2SC711
TR6 2SC711
IND 7 RECORD LAMP
AUTO STOP
CONT'S PLAY
SW2
TR1,2 2SC711 x2
D1 to D4 WG-599
D7 WG-599
REC
PLAY
SW3
F.F
PAUSE
SW4
FUNCTION
IND5 PAUSE LAMP
FUNCTION SW. P.C. BOARD
PROGRAM LAMP
IND6 VU LAMP
T2 S16-508
T3 S16-508
J3
HEAD PHONE
P.B/REC HEAD
LEFT
RIGHT
ERSE HEAD
L1 OT-803
TR1,2 2SC1211 x2 or 2SC1247A
OSC. P.C. BOARD
D1 to D3 1S2473 VE or WG599
TR3,4 2SC945 x2 or 2SC711
TR5 2SD360
C.S.P
RL-1
TR2,3,4 2SC711
SW3
50HZ
60HZ
SW1
SW2
MOTOR
M
M1 VU LEFT
M2 VU RIGHT
POWER SUPPLY & SYS-CON P.C. BOARD
S.L
SW5
PROGRAM SELECTOR
TR1 2SD360
T1 EGT-3
F1 0.7A
SW1
POWER
AC 240V 50HZ
WG
F1 100V to 120V 1A 200V to 240V 0.7A
AC 100V to 240V 50/60HZ
POWER

NOTE
UNLESS OTHERWISE SPESIFIED
ALL RESISTORS IN Ω 1/4W (J)
ALL CAPACITORS IN μF 50W.V.(J)
NL INDICATES NOISE LESS RESISTORS

GXR-82D
SCHEMATIC DIAGRAM

NO. 2-2 1480461A